NOVEMBER 1959

CCJ COMMERCIAL CAR JOURNAL

THE MAGAZINE FOR TRUCK AND BUS FLEET OPERATORS

A CHILTON PUBLICATION

FLEET BUYERS' DIRECTORY 1960

Geared by FULLER...

ROADRANGERS cut trip time and maintenance for CXI

Chicago Express, Inc., New York City, emphasizes fast, safe, dependable service on its runs between the New York area and major Midwest cities. Typical of the performance of CXI's fleet is the 52-hour round trip between Bound Brook, New Jersey, and Chicago.

Backbone of the company's Midwest service are 20 White 9000 Tractors equipped with 190 and 220 hp diesel engines and 10-speed Fuller R-960 ROADRANGER Transmissions. Fleet Superintendent Michael Governale says, "We've cut 3½ to 4 hours from our Chicago run with the ROADRANGER-equipped units. Other transmissions we've used do not compare with the ROADRANGER for upkeep, easy shifting and overall performance. For our operation, I don't think there's a better transmission than the Fuller ROADRANGER."

Fred Hoette, Vice President in Charge of Maintenance, adds, "We endorse the Fuller ROADRANGER 100%. In contemplating new equipment, we are definitely specifying Fuller Transmissions."

Ask your dealer for full details about the Fuller ROADRANGER best suited to meet the requirements of your particular operation.

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Subsidiary EATON Manufacturing Company

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Gerald Kramme stands with a 36,000-lb. capacity tanker, one of 75 trucks in the Kramme fleet.

"...we didn't just guess...

Gerald Kramme,
Vice President of P. E. Kramme, Inc.

. . . about using Pedrick Formflex piston rings," states Gerald Kramme, Vice President of the P. E. Kramme, Inc., a large Eastern tank truck concern. "We've learned the hard way, through experience with other brands, that for our hauling, both long and short, Pedrick rings are tops in dependability. Since we haul perishables, this is especially important. We also find that with Pedrick rings, we get longer service life with lower costs."

What about *your* truck or fleet? At your next overhaul, get the best. Specify Pedrick FORMFLEX Chrome piston rings. It will pay you in added service miles, reduced downtime, greater savings. WILKENING MANUFACTURING Co., Philadelphia 42, Pa. *In Canada*—Wilkening Manufacturing Co. (Canada) Ltd., Toronto 2.

DEPEND ON **Pedrick**

FOR THE RIGHT RING JOB

COMMERCIAL CAR

—November 1959—Vol. 98—No. 3

It's still the only complete-in-one-issue guide to where to find the hundreds of items you use in your fleet's operation. But it's all new . . . and easier to use. First there's the wholly revised. . . .

Product Directory 79

It lists products by the name most commonly used in fleets. In many cases, major groupings are used to make it still easier to find what you want. And the whole section is fully cross-indexed. To make it still easier, there's a new separate listing of. . . .

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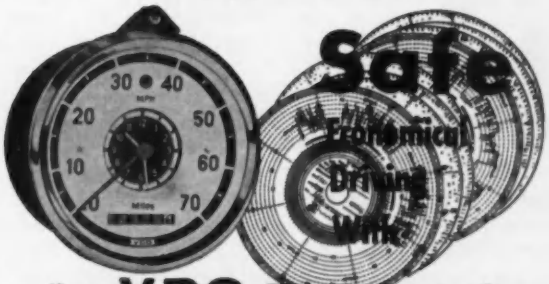

the VDO Tachograph

Indicates Speed - Mileage - Time
Warns When preset speed limit is exceeded.
Records Speed Driven - Mileage Covered - Drive & Stop Periods

Records vehicle operation in chart form.

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- Simplified installation in the dashboard is possible!
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Goodyear Rims with exclusive Bond-a-Coat finish

This Rim was protected by Bond-a-Coat process

Note condition of rims after standard 48 hour ASTM salt-spray test. Exclusive Goodyear process thoroughly prepares the raw metal surface.

This Rim was Not

The above pictures clearly show the protective effect of Goodyear's exclusive process—Bond-a-Coat.

This unique finish—originally proved on Goodyear Agricultural Rims—keeps rims from rusting. More than that, it protects tires, too—helps you get maximum mileage out of every tire you buy.

Bond-a-Coat is just one of the reasons why you'll find it pays to specify Goodyear Rims, both for replacement and on new equipment. Some of the others:

Unusual strength: Thanks to special designs and closer tolerances, balance and alignment are greatly improved. As a result Goodyear's present-day rims are suited for today's needs.

Job-Fitted: Goodyear Rims are job-fitted. Result: less tread cracking, tread wear, reduced sidewall and bead failure.

Special tools: Goodyear provides both hydraulic and hand tools especially made for modern equipment.

Talk it over with your local Goodyear Rim Distributor. He'll help you pick out the type and size of rim best suited to your needs. Or write: Goodyear, Metal Products Division, Akron 16, Ohio.

This is how Goodyear stores its rims—outdoors—thanks to Bond-a-Coat.

Your tires go farther on RIMS by

GOODYEAR

MORE TONS ARE CARRIED ON GOODYEAR RIMS THAN ON ANY OTHER KIND

E D I T O R I A L C O M M E N T

Yes, Virginia, Conventions Are Worthwhile

LOS ANGELES, CAL., OCT. 1959 — When you ride the Sunday-through-Friday toboggan of an ATA Convention, you find precious little time to think about what's going on. The annual meeting of American Trucking Assns. is not recommended as a rest cure.

During a mid-week taxi ride you make a mental subtotal. Three days of meetings, with organized breakfasts, luncheons and dinners. Yet somehow you found time to serve on two committees, inspect a whole new line of trucks, visit a "classified number" of hospitality rooms and even stop by your own Los Angeles office.

Then somewhere along the line there comes a golden moment when you begin to get the big picture. By week's end you have sorted some of your notes and releases into the "hot news" pile (page 33). You have another vast stack of long range projects that will influence editorial content for months to come.

It's about then that you inevitably ask: Was it all worth while? At first you're not quite sure of the answer. But you look at the faces around you. You remember that these leaders of the trucking industry have come to the West not only for information, but for inspiration as well. And suddenly you realize they have had ample helpings of both.

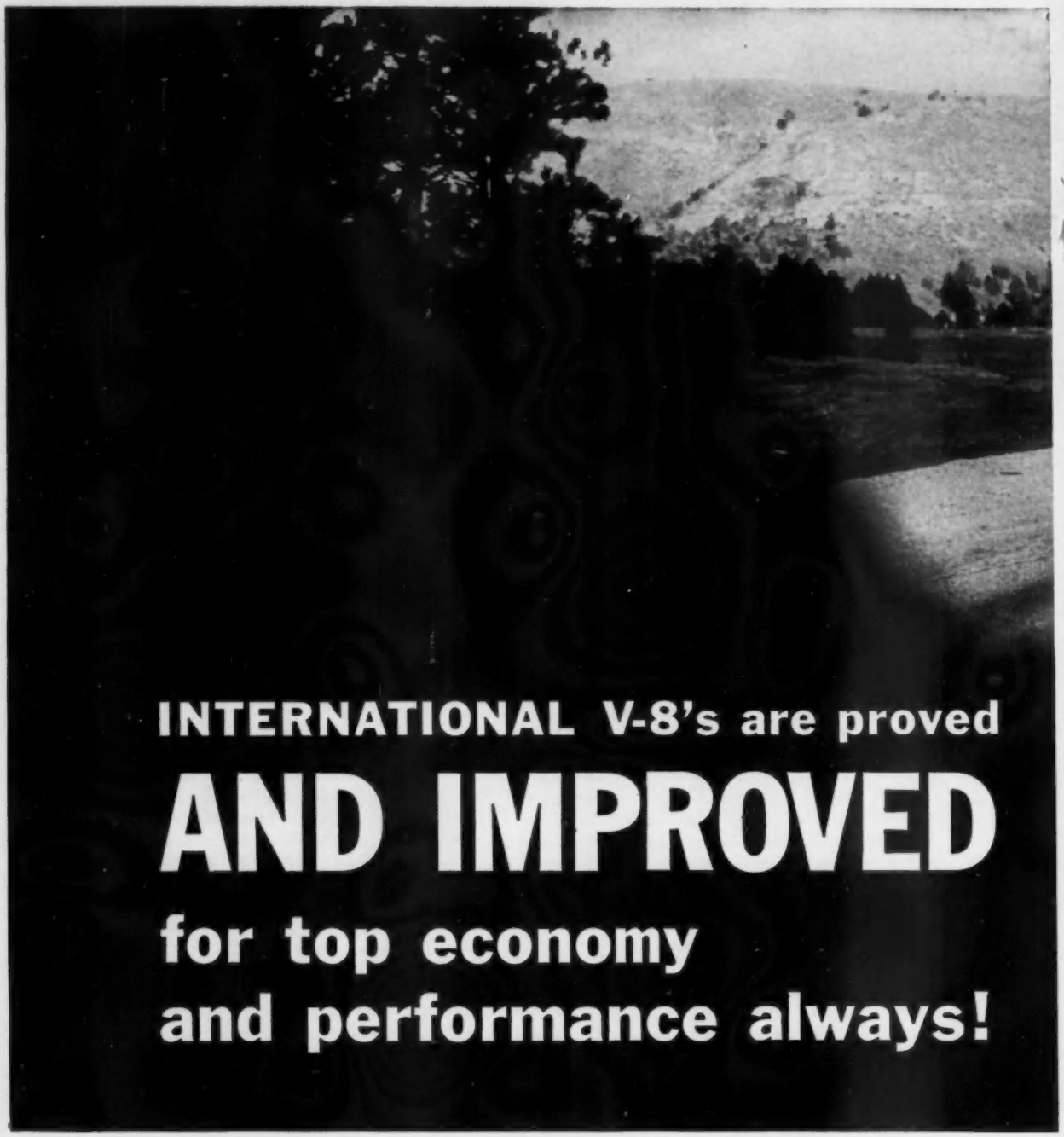
Let me comment ever so briefly on just two of the inspirational talks. Both concerned the national economy as it relates to the trucking industry. Both mentioned the challenge of the Soviet Union. Both ended on optimistic notes.

Said C. D. Jackson, vice-president and senior economist of *Time* magazine: "In 1949 only 7 per cent of U. S. families had incomes of $7500 or more. This year 21 per cent are at this salary level. And experts predict that by 1969 40 per cent of all U. S. families will earn at least that much."

When we broke bread with Governor "Pat" Brown, many expected platitudes about the California climate. They didn't get them. Instead they got a not-too-favorable comparison of our rate of economic growth as opposed to that of the USSR. Then this challenge:

"The publisher-editor of *Fortune* magazine once called this the American Century. It is not the American Century yet. We still have 40 years to go. Vast undertakings remain still ahead. And then, God willing, the American Century may indeed come to pass. Not as a proud boast or an ungenerous taunt. But as an example of what can be accomplished when free men combine the enterprise and imagination for which they have become so justly celebrated."

Bart Rawson
Editor



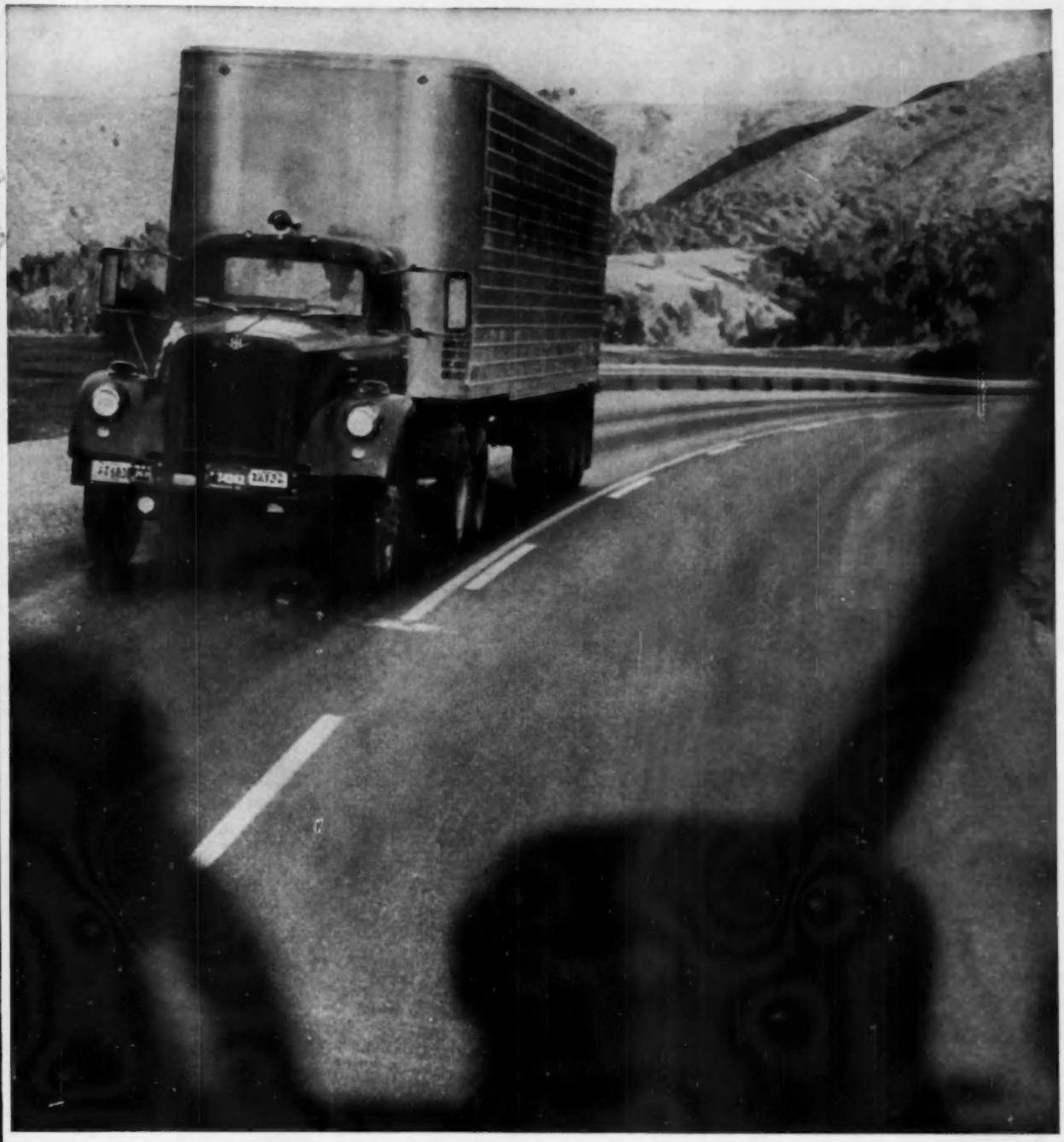
Truck-built INTERNATIONAL heavy-duty V-8 engines have been *proved* on the road, *proved* by the clock, *proved* on the books through millions of miles of service.

Yet INTERNATIONAL engineers won't let these husky 401, 461 and 549 cu. in. displacement engines alone!

Refinements are designed in and brought out to the public as soon as they're ready. There's never a wait for a new "model year." Here are some of the latest improvements: Special new pistons, rings and intake valve oil seals further reduce oil consumption. A metered-flow water jacket evens water temperature in every part of the engine. Finish-honed replaceable exhaust valve guides and self-aligning hydraulic tappets add increased road time.

As a result, INTERNATIONAL heavy-duty V-8 powered trucks give you top economy and the most efficient performance on the road today.

See your INTERNATIONAL Dealer or Branch for the best in gasoline or diesel power.



Weight-trimmed model VF-195 weighs only 10,650 lbs. ready for the road with lightweight options. Bumper-to-back-of-cab dimensions range from 96-in. to 126-in. sleeper model. Choice of four- and six-wheelers meet the increasing trend to 73,000 lbs. gross.

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INTERNATIONAL® TRUCKS

WORLD'S MOST COMPLETE LINE

B.F.Goodrich

B.F.Goodrich Traction Express tires give fleet operator 50% more mileage than any other make

MEYER'S BAKERY of Blytheville, Ark., ships its products to the north-central states. Fifteen tractor-trailers do the job, traveling 16 hours a day, 7 days a week. Dependability and extra mileage were two things this company needed from a tire, so they tried the B.F.Goodrich Traction Express. Read what Manager R. H. Watson writes:

"Traction Express tires give us 50% more mileage than tires previously used. Road delays due to tire trouble have been reduced 20%. We plan to make all our replacements with B.F.Goodrich tires, because they mean 'many dollars saved'."

The Traction Express tread is up to 33% thicker than that of a regular tire. Husky cleats take a non-slip grip on pavement. Under the tread is the B.F.Goodrich FLEX-RITE NYLON cord body. FLEX-RITE NYLON withstands double the impact of ordinary cord materials, resists heat blowouts and flex breaks. No wonder this B.F.Goodrich cord body outwears even an extra-thick tread, can be retreaded over and over.

Truck operators call the Traction Express "the 100,000-mile tire". Why not see your B.F.Goodrich Smileage dealer today and find out how the Traction Express will give you lowest cost per mile. Your dealer is listed under Tires in the Yellow Pages of your phone book. *B.F.Goodrich Tire Co., A Division of The B.F.Goodrich Co., Akron 18, Ohio.*

Specify B.F.Goodrich Tubeless or tube-type tires when ordering new equipment

B.F.Goodrich *truck tires*

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Diesel Fuel Anti-Icing Additives

Servicing Breaker Points

Ford Tears-Down an Engine

Manifold Gasket Leaks

Chevrolet 1960 Car Service

Cleaning Anodized Aluminum

Edsel Steering Gear Noise

Fordomatic Clutch Installation

Dodge Radiator Hose Service

Chevrolet Car Vacuum Advance

Chevrolet Hydraulic Clutch

AT YOUR SERVICE

TIMELY NOTES ON TRUCK, BUS, PASSENGER CAR FLEET MAINTENANCE AND OPERATION

briefed by ED SHEA, Technical Editor

Diesel Fuel Anti-Icing Additives

GMC REMINDS diesel truck operators in a recent bulletin that when below freezing temperatures are encountered, any moisture present in fuel tanks, fuel lines, filters, etc., may freeze, preventing or restricting the fuel flow. This moisture may have entered the fuel system from an outside supply tank, or may have been formed by condensation. To overcome this condition, pure anhydrous (waterless) alcohol or methanol (wood alcohol) should be added to the fuel in the ratio of one pint of alcohol to every 50 gallons of fuel. The anhydrous alcohol or methanol will absorb the moisture in the fuel system, thus reducing the possibility of freezing. Since methanol (wood alcohol) or commercial type antifreeze is readily available in one gallon or bulk lots in most sections of the country, it should be used whenever possible.

It is important that methanol (or anhydrous alcohol) be obtained from drums that have been kept tightly closed. If the contents have been exposed to the atmosphere, they may have already absorbed nearly their capacity of moisture from the atmosphere. If the alcohol has absorbed nearly its capacity of moisture, its usefulness as a drying agent will have been lost. Under no circumstances should "reclaimed" methanol be used, inasmuch as in handling, it will have absorbed much of its capacity for moisture. Note: The above information does not indicate that fuel filters should not be drained regularly. Actually fuel filters should be drained more often in cold weather to keep the fuel system as free of water as possible to prevent icing.

Servicing Breaker Points

ALTHOUGH IT usually is advisable to install new breaker points when performing work on a distributor, you sometimes may have to service the old ones due to an emergency or lack of replacement parts. When working on them, be sure to use crocus cloth as the buffing agent. Sandpaper or other abrasives may damage the contact surfaces and leave minute particles of abrasive in the distributor which may cause excessive wear.

After re-installing the points, clean them thoroughly with a strip of lint-free tape moistened with ether or an equivalent solvent. Pull the tape back and forth across the contacts to remove foreign material. Then, repeat the process with a lint-free dry cloth to remove all residue and moisture from the contact surfaces. New points, too, always should be cleaned after installation.

If plagued with excessively contaminated points (after checking the voltage regulator, ignition starting by-pass circuit and the ohmmage of the coil resistor) look for a worn distributor drive shaft bushing. A worn bushing may be letting oil fumes from the oil breather enter the distributor through the distributor cap vents. Also, using the wrong grade of cam lubricant may result in point contamination, especially if the lubricant melts out at high temperatures.

Ford Tears Down an Engine

AS PART OF its program in introducing its 1960 truck models, Ford featured a tear-down of a 534-cu in. gasoline engine. Engine came from the Borden Co. where it ran-up 255,732 miles (some 7644 hours of operation) from the time it was first put in service, Oct. 1, 1957, and Aug. 27, 1959, when it was shipped to Ford for the tear-down.

Prior to the tear-down, the only major repair was replacement of the oil pump. Earlier a rear crankshaft oil leak had been corrected at which time the oil pump was removed. In reinstalling it, an improper mounting flange gasket was used, 1/16-in. thick. Ford specs call for a 0.009-

(TURN TO PAGE 12, PLEASE)

Here are the three when hydraulic brake

*REFILL with Wagner Lockheed *SUPER* HEAVY DUTY HYDRAULIC BRAKE FLUID

There isn't a safer brake fluid on the market than Wagner Lockheed No. 21-B SUPER HEAVY DUTY. It is an all-season fluid that functions perfectly under all operating conditions. It is chemically balanced so that it is not injurious to any part of the brake system. It maintains its chemical stability even under long, severe service. It surpasses S.A.E. specifications 70R1 and 70R3, and conforms to Federal specifications.

*RELINE with Wagner BRAKE LINING, BLOCKS, or LINED SHOES

Unsurpassed for safe, quick, sure stops, this long-lived lining of uniform non-abrasive texture grips silently. It does not swell or compress. Ideal for heavy-duty service under the most severe driving conditions. Available in sets, blocks, rolls, slabs, cut segments, on shoes—either bonded or riveted—and in Exchange Shoe Sets for passenger cars and light trucks.

LOCKHEED BRAKE PARTS, FLUID, EXCHANGE SHOES and LINING • AIR HORNS • AIR BRAKES • TACHOGRAPHS

R's* to remember systems need repair...

*REPLACE with Wagner Lockheed HYDRAULIC BRAKE PARTS

This line is the most complete on the market and provides hydraulic brake repair and replacement parts for all types of trucks, trailers, buses and passenger cars. Wagner Lockheed POWER BRAKE REPAIR KITS—with "HOW-TO-DO-IT" Instructions in every kit—are available for all makes of passenger cars.

You can depend upon Wagner Quality because Wagner Products are used as original equipment by automobile, truck, tractor and trailer manufacturers

QUALITY CONTROL of Wagner Brake Service Products begins with the formula or design, and is extended through checking, testing, and inspection stations maintained throughout every Wagner production and assembly line.

Tests to determine exact performance characteristics are conducted in Wagner's Laboratory—and on mountain road runs at Wagner's Test Station at Jennerstown, Pa. All contribute to better brakes and safer vehicles. For details on complete line consult nearest supplier of Wagner Products or write us for FREE Catalog AU-500.

ELECTRIC MOTORS • TRANSFORMERS • INDUSTRIAL BRAKES

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WA 89-7

How 3 National Fleets Cut Towing Costs with

WATSON Towmaster

DETACHABLE TRUCK RETRIEVER CRANE

1. PACIFIC INTERMOUNTAIN EXPRESS uses the WATSON TOWMASTER to retrieve even the heaviest "West Coast" type tractors. Saves on downtime—operator tows out a good tractor and the load is on its way as he returns to the shop with the disabled one. Because TOWMASTER fits any tractor fifth wheel, dispatcher can send out any tractor to do the job!

2. UNITED PARCEL SERVICE saved $800.00 in towing costs in just 3 months with a single WATSON TOWMASTER!

3. RYDER TRUCK RENTAL uses TOWMASTERS to exchange trucks and tractors in many of their 35 locations throughout the Southeastern U.S.—as well as for retrieving disabled rigs. One driver with a TOWMASTER-equipped tractor can exchange two units at a time at 50% saving in driver cost. Or in case of breakdown of a customer's truck, he can haul out a replacement and retrieve the disabled unit. No need to keep a costly special wrecker on standby, or hire expensive towing services!

TOWMASTER Truck Towing Cranes can be attached to or removed from any tractor fifth wheel in 10 minutes or less. "Lift-off" winch makes it an easy one-man job. Has plenty of capacity for all highway breakdowns and most wrecks, too—even 3-axle rigs. Costs less than $600.00—why pay more? Write for free catalog today. Please address Dept. D-11.

WATSON

H. S. WATSON COMPANY
1316-67th ST., EMERYVILLE 8, CALIF.
1606 LASKEY ROAD, TOLEDO 12, OHIO

Continued from Page 9

0.011-in. thickness. Subsequently at the 240,000-mile mark, low oil pressure caused Borden to investigate. It found the oil pump's mounting flange broken on one side. It replaced the pump and the crankshaft main bearing and con rod inserts. However, inspection of the bearings shows they would have given additional thousands of miles of service.

Only other service the engine received prior to the test tear down were spark plug changes every 16,000 miles, distributor point replacement at intervals ranging between 14,000 and 29,000 miles, muffler and engine belt changes at about 70,000-mile intervals, new alternator brushes at 91,767 miles, a new clutch at 136,-032 miles.

Test runs of about 250 miles each showed the engine averaging 3.95 mpg fuel consumption with a 73,3000 lb GCW load, 4 mpg with a 59,-840 lb GCW load and 3.73 mpg with a 77,550 lb GCW load. Test run included 30 miles of 4 to 6 per cent grade. Oil mileage on the engine when new was 900 miles per quart. Using Shell "Rotella" SAE 30 oil, changes were made every 4000 miles. Average for oil added during the 255,732-mile period of service was 498 miles per quart.

The 534-cu in., 277-hp, V-8 engine was operated in an F1100 conventional cab tractor. At the time of the tear-down, compression pressure was 155-163 psi. Not unexpected at 255,732 miles, the oil rings were near clogging. Cylinder bore piston clearance ranged between 0.0033 and 0.0051 as compared to 0.0016-0.0020 when new. However, only one bore exceeded the 0.005-in. wear limit.

Wear on the upper two compression rings resulted in seven being rejected for further service. As compared to the "new" measurement range of 0.003-0.0035, the range for all 16 was 0.003 to 0.021. Piston pin and con rod clearance had increased from 0.0004 to 0.0005-0.0008. All were ok'd for further service.

Crankshaft end play went from 0.004 when new to 0.007—well within the 0.012 wear limit. Camshaft end play was measured at 0.004 as compared to the original 0.005, again well within the 0.012 limit. Lobe lift loss on the camshaft was 0.004 as compared to the maximum allowable of 0.005. Distributor, governor and timing gear backlash were all within the maximum wear limits.

(TURN TO PAGE 16, PLEASE)

OUT OUR WAY **By J. R. Williams**

BIG ORIGINAL MILEAGE PLUS BONUS RECAPS

Both at the Lowest Price with Lee Super DeLuxe Highway Nylons

Operators who keep an eagle eye on their cost vs. mileage figures will tell you that Lee Super DeLuxe Highway Nylons run up the best record for them. Lee Nylons are best by far for extra original mileage, multiple recaps and for the all-around service that cuts your cost-per-mile way down.

An exclusive Lee process makes Super-Tensile Nylon the toughest cord ever to go into a truck tire. Users testify to the tremendous protection this cord gives against impact bruises, blowouts and moisture damage. Downtime due to tire damage isn't a worry with Lee Super DeLuxe Nylons.

There's extra mileage packed into the natural rubber tread, a special Lee design, that delivers tremendous traction and cooler running on the road.

Put your own units on Lee Super DeLuxe Highway Nylons, tube or tubeless. It's the surest step to increased mileage and recaps. And when it's time to retread, be sure to specify Lee Double-Life Tread Rubber for maximum recap mileage.

Shown is the Lee Super DeLuxe Highway Nylon. Whatever your truck tire needs, there's a Lee that's *right* for the job.

Lee Rubber & Tire Corporation
Conshohocken, Pa.

Please send me your free catalog showing Lee of Conshohocken's entire line of truck tires.

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Company _____

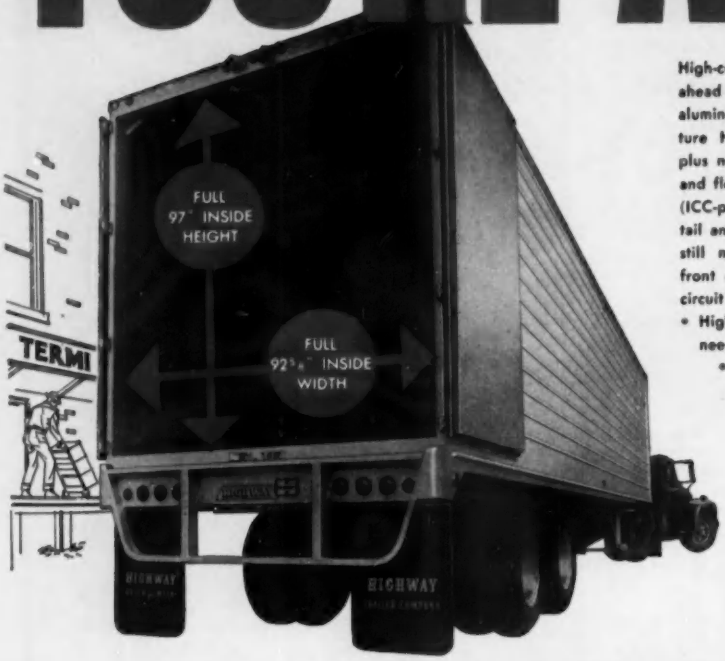
Address _____

City _____ Zone _____ State _____

LEE TIRES

LEE RUBBER & TIRE CORPORATION **CONSHOHOCKEN, PA.**

YOU'RE AHEAD

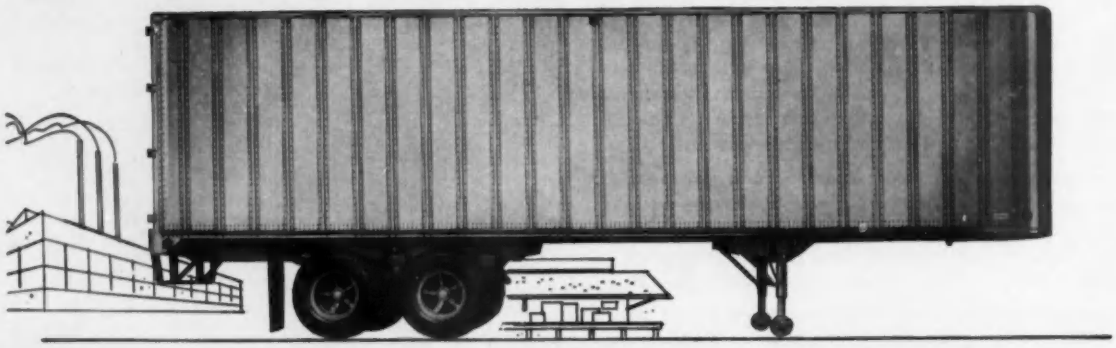


High-cube haulers, here's your chance to put yourself ahead of today's tough competition with these all-new, all-aluminum Highway Super-Econovans • Both models feature Highway's performance-engineered watertight roof, plus new, extruded aluminum rub rail, roof bows, stakes and floor sills • "Level-Flor" design is optional • New (ICC-proposed) three individual rear lights (directional, tail and stop) • New, redesigned lightweight suspension still maintains a 10,000-lb. rating per spring • New front connector box with 6-way and 7-way sockets plus circuit breaker protection and emergency quick connectors • Highway stress-panel design (aircraft construction) pioneered by Highway in both steel and aluminum trailers • Whichever unit you buy, whatever your specified options, you can be sure these new Super-Econovans will put you ahead . . . with Highway!

OUTER-PANEL SUPER-ECONOVAN

Full 97" inside height; full 92-⅝" inside width (including liners!) Engineered for easy sidewall maintenance. Available in dry freight as well as light, medium, heavy and full reefer insulated vans.

WITH HIGHWAY



INNER-PANEL SUPER-ECONOVAN

Full 97" inside height; full 94" inside width. Smooth interior, no sharp edges! Lightweight but super tough — the finest all-aluminum dry freight van ever built!

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Executive Office: 250 Park Avenue, New York 17, N. Y.
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Manufacturers of: Commercial Trailers • Trailerized Tanks and Dry-Bulk Haulers • Cargo Containers—Land, Sea and Air • Public Utility Bodies • Earth-Boring Machines Pole and Cable Reel Trailers • Winches Power Take-offs • Service Accessories.

SALES AND SERVICE IN PRINCIPAL CITIES

Got a tough
PISTON PROBLEM?

Only the Steel Wire Insert Piston Gives You

- ✱ STEEL WEAR (in top ring groove)
- ✱ ALUMINUM LIGHTNESS
- ✱ UNRESTRICTED HEAT FLOW

reduce the wear where the work is done... with

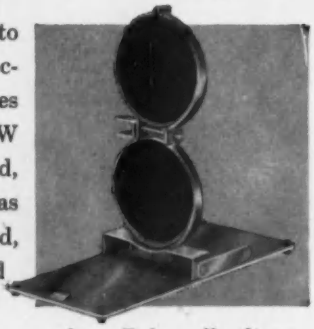
G & E WIRE INSERT PISTONS

Reducing top ring groove wear is the key to superior piston performance. G&E's patented wire reinforcing plus rapid, uniform heat flow keeps "tight as new" tolerances for remarkable mileages. Aluminum-light, steel-strong construction increases engine power and economy. G&E Wire Insert Pistons have a proven record for low cost per mile and trouble-free operation under the severest truck, tractor and construction uses. You'll save money, maintenance time, and break-down delays for your customers—by specifying the use of G&E Wire Insert Pistons.

Write for the G&E Steel Wire Insert Piston story today!

GILLETT AND EATON, INC.
802 Doughty St., Lake City, Minn.

...as in the NEW FP
(flare perfection), for example



Here's the answer to the demand for a reflector flare that combines TOP quality and LOW cost . . . The rugged, compact FP flare has all metal parts plated, brilliant lens and wind resistant base. Unit folds flat . . . Fully approved . . . Below all others in price — ahead in performance!

The FP far exceeds ICC wind-test requirements.

For a complete SELLING line the answer is *Anthes* too . . .

- FLAGS
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- FIRE EXTINGUISHERS

For full particulars and complete automotive catalog write

Anthes The First Line of Safety
FORT MADISON, IOWA

ENGINES

AT YOUR SERVICE

Continued from Page 12

Manifold Gasket Leaks

IF YOU'VE BEEN having trouble with blown or leaking exhaust manifold gaskets, a recent bulletin from Sealed Power Corp. suggests the following procedure. . . .

Before installing new gaskets, check for warping of the manifold. If dowel pins are used, the dowel pin holes should be increased in diameter to enable the manifold to expand and contract without buckling. Since in some of the larger engines the manifold increases in length as much as ⅛ in. from atmospheric temperature to operating temperature, the manifold simply has to slide or buckle. Gasket life has been increased if the manifold face contacting the gasket has had liberal application of key graphite base which usually can be secured through any plumbing shop. This seems to create a hard slate film with a very low co-efficient of friction allowing the manifold to expand and contract. When installing the manifold, the center bolts should be tightest and the bolts towards either end progressively looser.

Chevrolet 1960 Truck Geometry

INDEPENDENT FRONT suspension on the 1960 Chevrolet trucks comes in two basic series—the 10-40 and the 50-80. To adjust at curb height on trucks with the 10-40 suspension, measure the lower bumper bracket to cross member clearance. This should be 4⅜ to 4⅝ in. at the centerline of the wheel. If the left hand and right hand torsion bars are reversed, height cannot be set.

For caster changes on the 10-40 Series suspension, one 1/32-in. shim added to the rear bolt decreases caster ½ deg, adding a shim increases it ½ deg. For camber changes, a 1/32-in. shim added at both bolts increases it 1/5 deg —or 10½ min. Difference between shim packs should not exceed 11/32 in., nor should any pack exceed ⅝ in. To adjust, loosen upper-shaft-to-bracket bolts, add or remove shims, retighten bolts carefully. Too tight and you will lose the alignment, too loose and you will lose shims. Don't heat or bend the steering knuckles. Caster specs are +1 deg plus or minus ½ deg. Camber should be +½ deg plus or minus ½ deg.

Torsion bars on the 50-80 independent front

(TURN TO PAGE 20, PLEASE)

Now! Handle tube valve replacement as easy as tubeless!

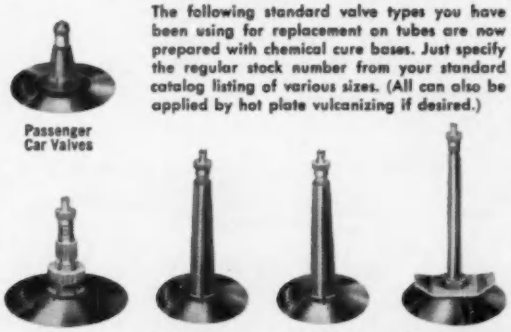
NEW! SELF VULCANIZING SCHRADER TIRE VALVES

CHEMICAL CURE . . . Heat, smoke or tricky vulcanizer no longer necessary. **IN STOCK NOW!** Your supplier has all these quality products.

Now Schrader's self-vulcanizing chemical cure is available on patches *AND* tire valves. Make repairs quicker and easier. Specify Schrader tire valves with the RED cover for *tire valve replacement.* Use patches for tube or tubeless punctures. Easy to apply with the "miracle cure" #338 "Fix Flats." The Schrader "Fix-Flats" line of valves and patches are Multi-Ply . . . tested and approved . . . modern money makers.

STANDARD TIRE VALVES NOW AVAILABLE WITH CHEMICAL CURE FOR REPLACEMENT SERVICE

The following standard valve types you have been using for replacement on tubes are now prepared with chemical cure bases. Just specify the regular stock number from your standard catalog listing of various sizes. (All can also be applied by hot plate vulcanizing if desired.)



SCHRADER SELF VULCANIZING PATCHES REPAIR TUBE OR TUBELESS PUNCTURES . . . COLD!

Plenty of sizes and shapes to fix the great majority of all flats. Just pull off the cloth backing, spread Schrader self-vulcanizing fluid, and install like regular patch. Simplifies! Saves time! Makes profit! Also use pre-buffing cleaning solution and vulcanizing stock to insure a better job.

Fill *all* your tubeless tire valve needs with only two snap-in valves, two extensions, Order #990 combination package. New tubeless valve mounting

A. SCHRADER'S SON, BROOKLYN 38, N. Y.
Division of Scovill Manufacturing Company, Incorporated

Schrader
a division of SCOVILL

FIRST NAME IN TIRE VALVES
FOR ORIGINAL EQUIPMENT AND REPLACEMENT

Made in America to American Standards of Quality

"They treat you fine at the Goodyear Sign!"

—where you'll find the best values in TRUCK TIRES to meet every need of Tonnage, Traction and Terrain—from pickup and panel-truck operations, to the biggest over-the-road haulers and earth-movers. All backed by years of experience . . . all expertly serviced at **GOODYEAR DEALERS'.**

RIB HI-MILER
Best buy in the low-price field

HI-MILER XTRA GRIP
Year-round low-cost super-traction

SUPER ROAD LUG
Powerful off-the-road traction PLUS long, smooth highway mileage

HI-MILER CROSS-RIB
Shatters highway tread-wear records

Hi-Miler, Road Lug—T. M.'s
The Goodyear Tire & Rubber Company, Akron, Ohio

"Skyland — our Hi-Miler

Why the Ryder System's is sold

"That Blue Ridge country sure makes truck tires lay it right on the line!" says E. W. Wright, Vice-President and General Manager of Great Southern.

"We have 6,000-foot elevations to haul our loads up and down—corkscrew roads with tight turns to grind off rubber—plenty of wet going where good road-grip is better than a permit to print money.

"Since we put on Hi-Miler Cross-Ribs, our drivers feel *sure* of their rigs and their schedules. Some of them report getting cargoes through under conditions that would have stopped them without Cross-Ribs."

But there's a big dollar reason, too, behind Great Southern's choice of Hi-Miler Cross-Rib. "Two years ago," continues Mr. Wright, "we were using standard-tread tires and averaging 40,000 miles before recapping. Now we get as much as 106,000 – with the over-all average at 97,505. And the cappability is there, too!"

Great Southern's profitable experience with Hi-Miler Cross-Rib is right in line with similar successes reported by dozens of hauling outfits the country over. Get all the facts from your Goodyear dealer—or from Goodyear, Truck Tire Dept., Akron 16, Ohio.

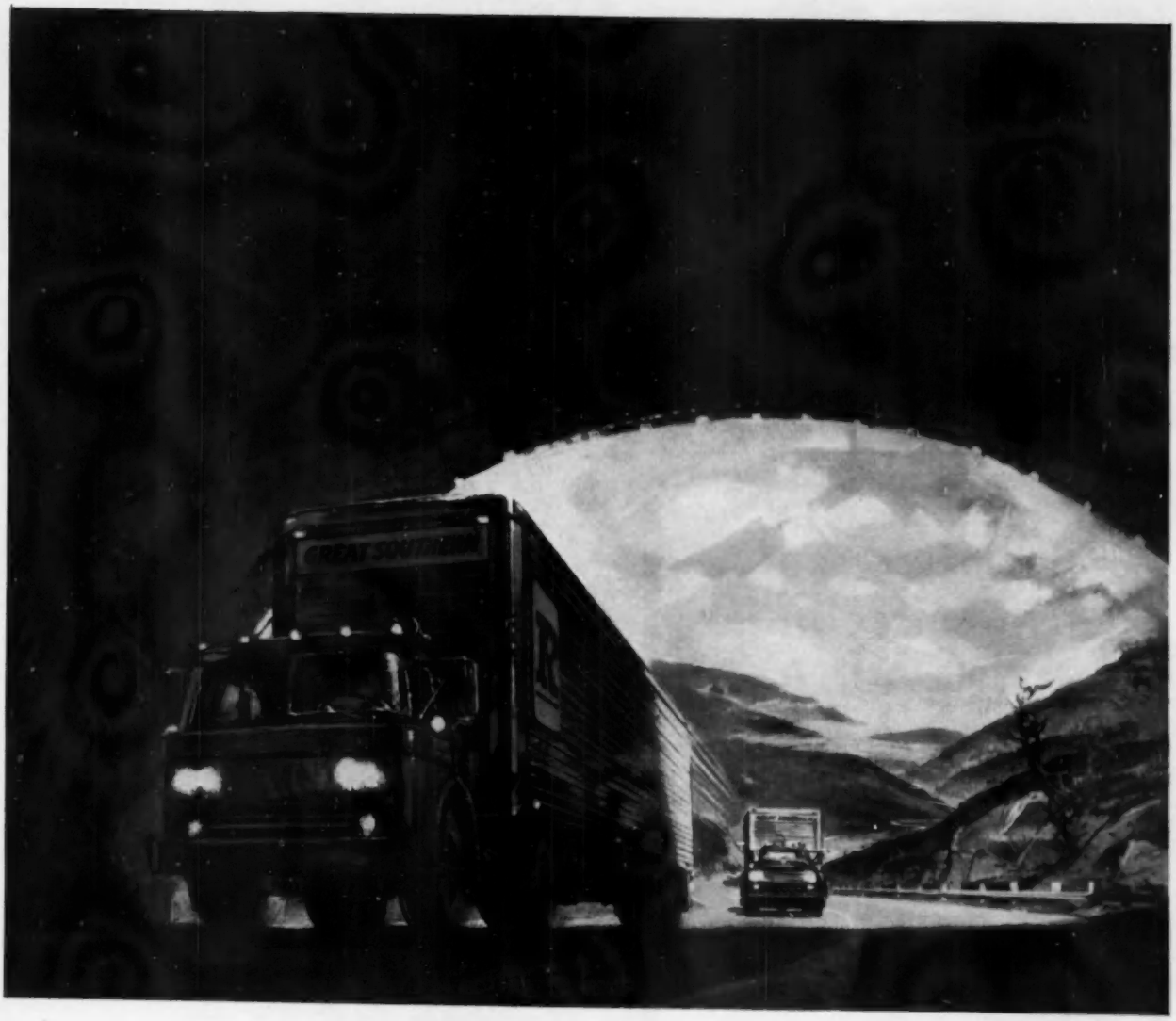
HI-MILER CROSS-RIB: EXTRA RUBBER *plus* TRIPLE-TOUGH 3-T NYLON CORD

1 60% thicker, nonskid tread! 2 Cooler-running tread design. 3 Triple-Tough 3-T NYLON Cord. (Goodyear triple-tempers Nylon cord in an exclusive process involving Tension, Temperature and Time, to make it TRIPLE-TOUGH—for longest tire life, most recaps, lowest cost-per-mile!)

TRUCK TIRES by GO

or Rocky Bottom Cross-Ribs take 'em in stride!"

Great Southern Trucking Co. of Jacksonville, Florida, on Goodyear's great Cross-Rib tire



OODYEAR

More tons are hauled on Goodyear Truck Tires than on any other kind

HEAT

New, all-purpose multi-fuel heater —for personnel, cargo, equipment

Now, instant fresh-air heat for all your vehicle requirements! With these new Perfection 'MH' heaters, you can keep operators and passengers comfortable in severest cold; defrost glass for safe, clear vision; keep perishable cargoes warm regardless of weather; heat engines to cut cold-weather maintenance and provide instant starting always These compact new heaters operate independently, burn all common liquid fuels, and are easily installed in any position. Three standard sizes: 15, 30, and 60 thousand BTU output. Write for Catalog No. MH.

Distributor Inquiries Also Invited

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TESTS PROVE

BENDIX ELECTRIC FUEL PUMP

OUT-PERFORMS ALL THE REST!

In tests supervised by the U.S. military, the Bendix* Electric Fuel Pump proved itself over a temperature range from +150°F to −65°F. No other pump anywhere near its price class could equal this performance. Here, in dramatic form, is proof of the everyday superior performance that the Bendix pump delivers on trucks and buses.

It positively stops vapor lock, delivers more gallons per hour, and is simple to install and service. Whether for original equipment—or for replacement—be sure your units get the *Bendix* pump. *REG. U.S. PAT. OFF.

Bendix-Elmira
ECLIPSE MACHINE DIVISION
ELMIRA, NEW YORK

Bendix
AVIATION CORPORATION

ENGINES AT YOUR SERVICE

Continued from Page 16

suspension are not adjustable for vehicle height. To adjust camber, there's a stamped upper control frame bracket between the upper control arm bracket and the frame side rail. Shims are inserted between this upper control bracket and the frame. No shims, one shim or two shims may be inserted. Each increases camber ½ deg.

A Mack Safety Hint

HERE'S ONE for your mechanics. It's on Mack's END and ENVP-673 diesel engine. A Mack bulletin warns of the possibility of these engines starting while turning over by hand. When necessary to turn one over by hand, here's what to do.

On a *truck*, always pull out the engine shut-off knob to prevent delivery of fuel and consequent engine starting.

For a *bus* diesel, always wire the lever on the shut-off solenoid in the off position.

These are the only positive means of preventing the engine from starting.

Cleaning Anodized Aluminum

MORE AND MORE vehicle makers are incorporating anodized aluminum exterior trim on their vehicles. One example is the radiator grille insert on new B-line International trucks. You can ruin the finish with incorrect cleaning. Don't use strong caustic cleaners, strong alkalies, steam cleaning solvents, steel wool or harsh abrasives. If you do, you're likely to change the bright surface to a dull, milky-white. Safest way to clean it is to use only lukewarm water. If necessary, a mild household soap may be used.

Edsel Steering Gear Noise

IF YOU ARE encountering a popping noise in the steering column when applying brakes or turning on Edsels, it may be due to misalignment at the upper steering column bearing sleeve and bearing spring. Edsel recommends adding a washer (Part No. 351811-S8) between the upper steering column bearing spring and the bearing sleeve. Lubricate the washer, the bearing and bearing sleeve carefully with graphite-type lubricant when installing. If the

(TURN TO PAGE 24, PLEASE)

Grey-Rock-equipped fleets spend more time on the road

Every fleet operator knows his rigs make money for him only when they are on the road. The rig in the shop with broken brake drums —or in a ditch because of brake failure—earns no profit.

It is easy to see how Grey-Rock can help your fleet earn more profit for *you*. Grey-Rock Balanced Trucksets and Balanced Brake Blocks deliver fast, smooth, safe stops under all operating conditions—and here's why. Combining just the right materials—woven-molded or all-molded combinations—Grey-Rock equalizes work done to provide balanced brake action between shoes in the same wheel and between axles. The result is more thousands of miles between relines—fewer costly drum replacements—less downtime. You get on-schedule operation—*more* time on the road to keep profits up—which adds up to lower cost-per-mile. Your Grey-Rock jobber can prove it to you with facts and figures. Call him for all the details on why Grey-Rock-equipped fleets are money makers.

BALANCED TRUCKSETS FOR LIGHT AND MEDIUM TRUCKS. Specially engineered linings in woven, molded and woven-molded combinations, for every make and model.

BALANCED BRAKE BLOCKS for safer, smoother stops. GREY-ROCK VEE-LOK CLUTCH FACINGS for smoother starts.

Only **Grey-Rock** *makes*

BALANCED BRAKE LININGS

BALANCED BRAKSETS • TRUCKSETS • BRAKE BLOCKS • VEE-LOK® CLUTCH FACINGS

GREY-ROCK Division of Raybestos-Manhattan, Inc., MANHEIM, PA.

RAYBESTOS-MANHATTAN, INC., Brake Linings • Brake Blocks • Clutch Facings • Industrial Rubber • Mechanical Packings • Asbestos Textiles • Engineered Plastics • Sintered Metal Products • Rubber Covered Equipment • Laundry Pads and Covers • Abrasive and Diamond Wheels • Industrial Adhesives • Bowling Balls

ENGINEER'S FIELD REPORT

PRODUCT **CHEVRON PRESSURE PRIMER SYSTEM**

FIRM **Bend-Portland Truck Service Portland, Oregon**

Chevron Starting System cuts starter repairs 75%

Chevron Pressure Primer Systems on Bend-Portland Truck Service's 22 diesel tractors last winter cut starter repairs 75%... reduced battery replacements 25%. "We sometimes towed trucks as long as an hour to get them started in cold weather," says fleet superintendent Ed Gutschmidt, "but we haven't towed one since we installed Chevron Pressure Primer Systems. And our generators and voltage regulators last longer, need fewer repairs and adjustments. Altogether, Chevron Pressure Primer Systems save us many hours a year, and hours are dollars."

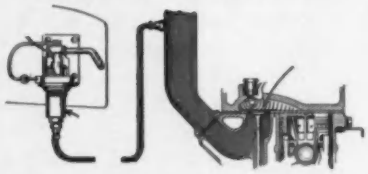
Driver Gordon Campbell (above) demonstrates how easy it is to start his Kenworth with a Chevron Pressure Primer Cartridge and the discharger mounted on dashboard. Firm previously tried spray-packs, fluid and ether . . . often needed two men to get truck started. Now one man and a cartridge or two does the job even when its 30° below zero.

TRADEMARK "CHEVRON" AND CHEVRON DESIGN REG. U.S. PAT. OFF.

STANDARD OIL COMPANY OF CALIFORNIA, San Francisco 20
THE CALIFORNIA OIL COMPANY, Perth Amboy, New Jersey

Firm's Trucks, all powered with Cummins diesels, range from new to 10 years old. Controlled charge of Chevron Pressure Primer System starts them all safely without knock or ping.

Why Chevron Pressure Primer System assures fast starts



- Volatile Chevron Priming Fuel atomizes in induction system at all temperatures even down to -65°F. No hand-pumping required.
- Pressure or weakest spark from engine fires mixture.
- Simple rugged air-tight discharger prevents Priming Fuel leakage.
- Small, fireproof, pressurized, steel cartridges protect priming fuel from water and dirt.

For More Information or the name of your nearest distributor, write or call any of the companies below.

STANDARD OIL COMPANY OF TEXAS, El Paso
THE CALIFORNIA COMPANY, Denver 1, Colorado

COMPARE

TORQUE AIR CONSUMPTION PRICE

Make	Advertised Ft. Pounds Torque 10 Sec. At 90 PSI	Actual Ft. Pounds Torque 10 Sec. At 90 PSI	Advertised Ft. Pounds Torque 10 Sec. At 120 Lbs.	Actual Ft. Pounds Torque At 120 Lbs.	Advertised Air Consumption	Price 1959
Sioux #313	60	73	80	98	2½	$119.00
"K"	None	72	None	95	2⅓	144.50
Sioux #314	75	87.5	95	102	2¾	123.00
Sioux #315	130	145	185	185	3½	127.50
"A"	None	139	None	181	4	139.50
Sioux #316	195	195	235	235	3½	138.50
Sioux #317	195	195	235	235	3⅝	138.50
"B"	None	127	None	173	4	170.00
Sioux #318	250	265	300	320	3¾	195.00
Sioux #320	750	770	900	1050	7½	325.00
"L"	None	700	None	1000	8	355.00
Sioux #322	1000	1050	1200	1250	8	367.50

See Page 200 for "Where To Buy It" Information

BUY A....

Air Impact Wrench!

ALBERTSON & CO., INC.

SIOUX CITY, IOWA, U.S.A.

AIR IMPACT WRENCHES • AIR SCREWDRIVERS • ELECTRIC IMPACT WRENCHES • ELECTRIC SCREWDRIVERS • GRINDERS • SANDERS • POLISHERS • FLEXIBLE SHAFTS • PORTABLE SAWS • VALVE GRINDING MACHINES • ABRASIVE DISCS

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ATTENTION: MANUFACTURERS of trucks, buses, house trailers . . . HI-VIZ Fluorescent Colors add "safety appeal" to your vehicles — increase sales potential! Available for spray equipment, brush and roller coating, also aerosol Jet-Spray cans.

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- General Motors Injector Testers
- Injection Pump Calibrating Stands
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26 Parts Lists

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CITY and STATE_____

2 AD-15

Continued from Page 20

noise persists, you may have to install a new bearing and sleeve.

Fordomatic Clutch Installation

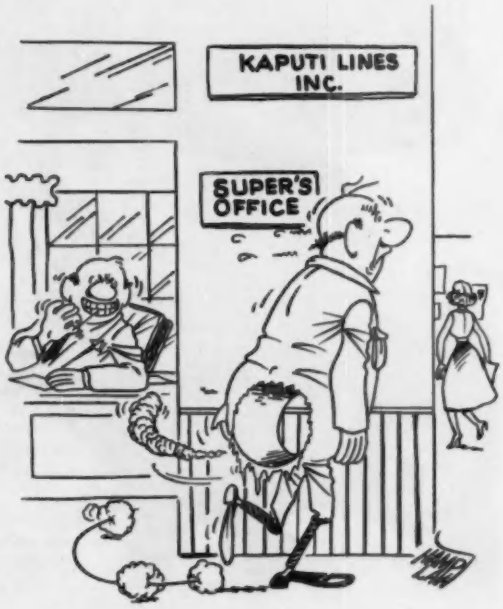
FORD SUGGESTS two precautions when installing non-metallic clutch plates in the 2-speed Fordomatic automatic transmission. First applies to *new* clutch plates. They must be, says Ford, soaked in automatic transmission fluid for at least 15 min before being installed. Soaking assures adequate lubrication and fluid retention, acts to prevent premature failure.

When installing *used* clutch plates, don't clean them with cleaning fluid or other detergents. Wipe them clean with a lintless cloth. Cleaning with detergents removes fluid they have absorbed. Without this lubrication, you're likely to run into premature failure of the friction material.

Dodge Radiator Hose Service

DODGE REPORTS cases of fan belts cutting the lower radiator hose on some 1959 model trucks equipped with the 354-cu in. engine. It's due, says Dodge, to a vibrating generator. Rec-

(TURN TO PAGE 28, PLEASE)



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Leads the Field in . . .

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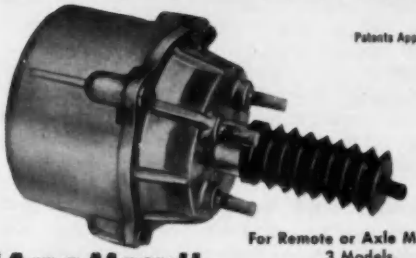
- ☆ Actual Production
- ☆ Field Experience
- ☆ Technical Knowledge
- ☆ Practical Application

. . . with *AIROMECH* and *PIGGY-MECH* SPRING BRAKES

Either Axle or Remote Mounting . . . For Trucks - Trailers - Busses



Patents Applied For

"*AIROMECH*" . . . For Remote or Axle Mounting 3 Models. 2½" and 3¾" Strokes

Patents Applied For

"*PIGGY-MECH*" . . . For Axle Mounting 2 Models for either type 24 or type 30 Chambers.

Berg SPRING (emergency) BRAKES **STOP** and **HOLD** vehicles **AUTOMATICALLY** as an EMERGENCY BRAKE . . . **MANUALLY** as a PARKING BRAKE!

Meet All New I.C.C. and State Regulations!

The **Only Full Line** of Spring Brakes to give you customized installations for all your vehicles at lower cost with the component parts to simplify every installation.

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Manufacturers of Brake and Electrical Safety Equipment For the Truck, Bus, Tractor and Trailer Industry

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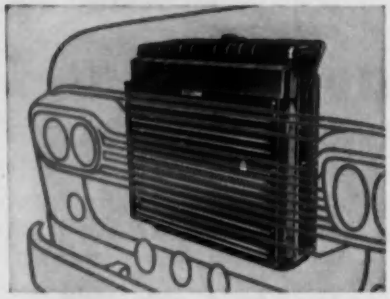
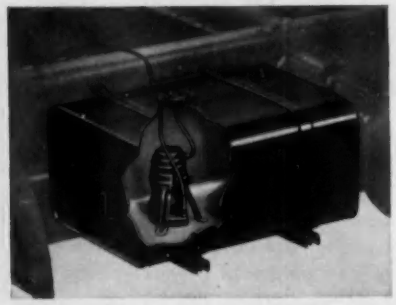
NOW! Certified Durability



CLOSER TEMPERATURE CONTROL obtained with automatic radiator shutters means longer engine life, more efficient operation. Temperature variation between 167° and 187° with shutters as compared to 102° to 181° without shutters was reported and certified in loaded vehicle road tests.

LONGER WIRING HARNESS LIFE is the direct result of Ford's greatly improved electrical wiring system for 1960. Ford's '60 wiring harness and the 1959 wiring harness were subjected to shaker table tests plus constant exposure to oil and water vapors, and temperatures of 200°. Certified test results show a threefold increase in 1960 wiring harness life.



INCREASED FUEL PUMP RELIABILITY is an added benefit from Ford's submerged-type electric fuel pump. Certified results of dynamometer tests showed no vapor lock with Ford's electric pumps at temperatures up to 200°, whereas incipient vapor lock with mechanical fuel pump resulted in a power loss of 9% under same conditions.

It's a fact! Numerous reports from high-mileage operators of Super Duty Trucks attest to Ford's outstanding durability. Studies by an independent research firm provide certified proof that these models are even more durable for 1960.

Ford Super Duty Trucks have earned a reputation for exceptional performance and durability since their introduction two years ago. Shop service records of many leading fleets show Super Duty tractors with mileage readings between 150,000 and 250,000 and no repairs other than normal maintenance. Similar testimony to the dependability of these Big V's by other satisfied users is being added each month. Is it any wonder that '59 sales of these units were more than double those of 1958?

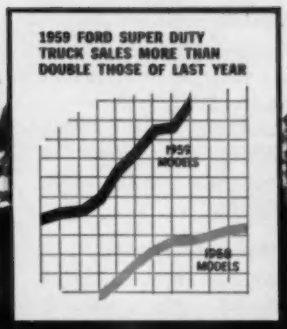
And for 1960, the Ford Super Duties offer additional refinements. Bigger optional axles and increased GVW's to permit greater payloads and more profitable operation. Automatic radiator shutters to keep the engine temperatures within the most efficient operating range, improved submerged-type electric fuel pumps to prevent vapor lock, and redesigned wiring for more reliable operation are typical of the improvements to be found in these units.

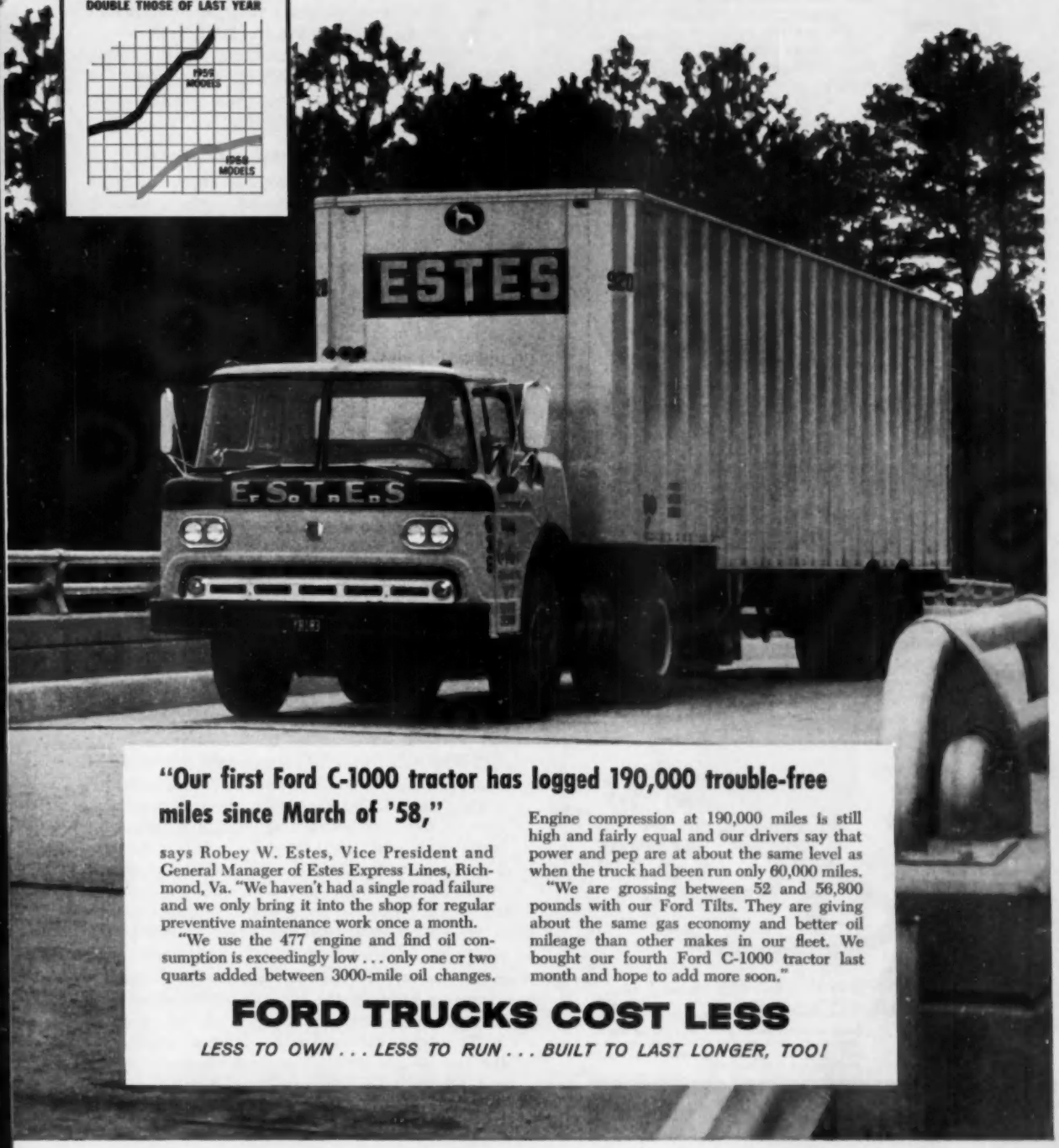
The changes offered for 1960 were tested and evaluated by a leading research organization. Certified results of the studies by this impartial firm (name available on request) provide proof that Ford's Super Duty Trucks are even more dependable.

- **Certified Durability through closer temperature control!** Independent research engineers certify that Ford's thermostatically controlled radiator shutters kept water temperature between 167° and 187° in severe mountain grade operation. The test truck with shutters blocked open under same operating conditions had a temperature range from 102° to 181°. The temperature variation of only 20° with shutters means less expansion and contraction in block and heads. Higher, more constant temperatures permit oil to circulate more freely, reducing internal friction. All these factors contribute to longer engine life.
- **Certified Reliability with longer-lived electrical system!** Thicker insulation on wires resists deterioration by heat, oil and gasoline. Asphalt-impregnated loom and plastic-coated mounting clips protect against abrasion. Certified results prove that the 1960 wiring harness has three times longer life.
- **Certified Reliability with Ford's submerged-type electric fuel pump!** Dynamometer tests of engines with submerged-type electric fuel pump and conventional mechanical type showed that vapor lock was non-existent with Ford's electric pumps at temperatures up to 200°, whereas incipient vapor lock with mechanical pump resulted in a power loss of 9% at an underhood temperature of 200°.

Endurance tests were run on alternators, two-speed axle speedometer adapters and other related components with similar results. Get all the facts at your Ford Dealer's now!

in Ford Super Duties!





"Our first Ford C-1000 tractor has logged 190,000 trouble-free miles since March of '58,"

says Robey W. Estes, Vice President and General Manager of Estes Express Lines, Richmond, Va. "We haven't had a single road failure and we only bring it into the shop for regular preventive maintenance work once a month.

"We use the 477 engine and find oil consumption is exceedingly low . . . only one or two quarts added between 3000-mile oil changes. Engine compression at 190,000 miles is still high and fairly equal and our drivers say that power and pep are at about the same level as when the truck had been run only 60,000 miles.

"We are grossing between 52 and 56,800 pounds with our Ford Tilts. They are giving about the same gas economy and better oil mileage than other makes in our fleet. We bought our fourth Ford C-1000 tractor last month and hope to add more soon."

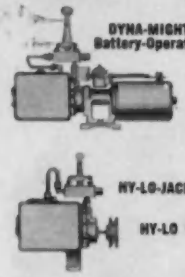
FORD TRUCKS COST LESS

LESS TO OWN . . . LESS TO RUN . . . BUILT TO LAST LONGER, TOO!

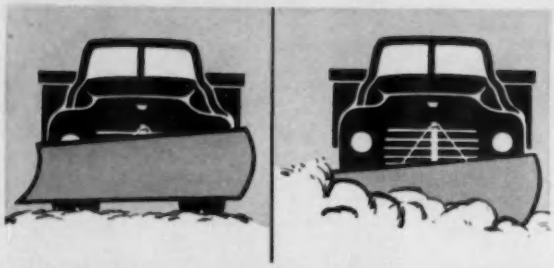
LIFT-LOWER SNOW PLOWS IN SECONDS

MONARCH

POWER HYDRAULIC CONTROLS



One man controls the plow from the cab . . . instant up-and-down action with the flick of a wrist. Snow removal is easier, faster, more economical with Monarch. See your dealer or write for illustrated folder.



MONARCH ROAD MACHINERY COMPANY

1331 Michigan St., N. E. — Grand Rapids 3, Michigan

HAVE YOU TRIED SAND BLASTING?

Tired of hand-sanding and scraping of Rust? Scale? Paint? Tough, hard-to-reach places cleaned to bare metal in SECONDS with . . .

NEW MODEL B

"SANDY JET" SAND BLASTER

- Needs no separate blasting room.
- Light weight rugged construction.
- New pistol-grip for easy operation.
- Uses any easily obtainable abrasives.
- Three sizes of interchangeable sand nozzles and air jets, available to suit any job.
- Fast, intense, powerful, cutting action.
- Operates efficiently on 50 to 225 lbs. air pressure.

LOW COST $39.95

★ 10 day money back trial offer. Complete with face shield, operators' hood and two extra nozzles.

Sand blasting saves 25% to 75% of the man hours required for hand cleaning on any job. The Sandy Jet will pay for itself on the first few jobs.

Order from your distributor or directly from the factory

ALC COMPANY
R.D. #5, Box 40, Medina, Ohio

FLEET CARS AT YOUR SERVICE

Continued from Page 24

ommended procedure for correcting the condition is to remove the lower radiator hose, install a 4-in. long piece of 2½-in. ID flexible metal hose over it. When reinstalling, position this flexible metal covering about 3½ in. from the lower radiator tank, directly under the fan belts.

Chevrolet Car Vacuum Advance

ON LATE MODEL 1958 and 1959 Chevrolet passenger cars equipped with automatic transmissions, the tap for distributor vacuum advance is taken directly from the intake manifold rather than through the carburetor throttle body. This change provides a greater spark advance at idle and improves engine cooling. When setting timing on engines with the vacuum tap connected to the manifold, disconnect the vacuum line. Then set the timing at 4 deg BTDC at idle. This setting brings the advance approximately within the limits of 17-deg and 21-deg at idle with the vacuum line re-installed.

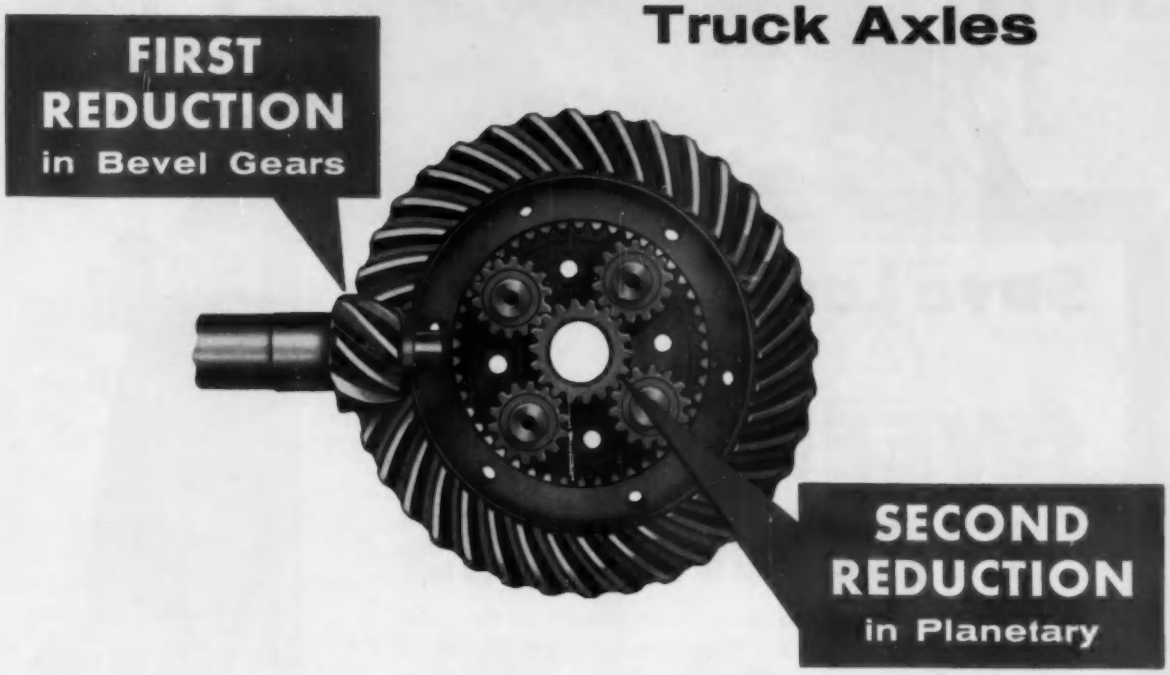
If you're wondering why advancing the spark at idle improves engine cooling, the reason is the automatic transmission fluid lines run up through the radiator for a "cool-off" journey. In congested traffic, slight advance accomplished by tapping into the manifold rather than the throttle body, makes the engine "rev" faster, thus the fan can pull more cooling air around the engine and through the radiator, reducing the temperature of the coolant and transmission fluid.

Chevrolet Hydraulic Clutch

HYDRAULIC CLUTCH controls are used on all Chevrolet 1960 trucks except forward control models. First place to check for adjustment is the lash between the clutch master cylinder push rod and the master cylinder piston. This amounts to ⅛ in. of clutch pedal pad movement. To adjust it, there's an eccentric bolt at the clutch pedal top push rod attachment point.

Second point of adjustment is at the point where the slave cylinder push rod contacts the outer end of the clutch fork at the V-notch. Clearance between the V-block on the slave cylinder push rod and the V-notch should be 5/32 in. To adjust, disconnect the pull-back spring at the end of the clutch fork and move the outer end of the fork rearward as far as possible. Push the slave cylinder push rod as far forward as possible.

A New Concept in Double Reduction Truck Axles



Eaton Planetary Double Reduction

Gives You these Important Benefits!

Save Weight—Size for size, Eaton PDR Axles weigh less than conventional herringbone or spur gear axles, permit truckers to haul more legal payload.

Last Longer—In Eaton PDR Axles, gear tooth loads are equally distributed over four rugged "planet" gears; stress and wear are reduced, resulting in materially longer axle life. Eaton's forced-flow lubricating system provides positive lubrication to all moving parts, even at slowest vehicle speeds—a feature not available in other double reduction axles.

Cost Less to Maintain—When and if repairs are necessary, parts are readily available—most of them interchangeable with other Eaton Axles. Simple construction—similar to the famous Eaton 2-Speed Axle, with which all truck service men are familiar—holds maintenance labor to a minimum.

Previously, double-reduction axles have been available only in the extra heavy-duty sizes. Eaton PDR Axles are available in a wide range of sizes—the last word in equipment to meet the demands of today's hauling conditions. By actual comparison they cost less to buy, less to maintain. They have established outstanding performance records in all types of heavy-duty operation.

EATON

Ask your Truck Dealer for Complete Information about Eaton PDR Axles

EATON

AXLE DIVISION
MANUFACTURING COMPANY
CLEVELAND, OHIO

Save Lost Truck-Days with WEED V-BAR TIRE CHAINS

Stuck trucks cost you money in unproductive overhead, broken schedules, and disappointed customers. When the going gets tough, keep your vehicles rolling on WEED V-BAR TIRE CHAINS. Weed Chains stop shorter and safer on snow or ice...provide the traction your trucks need to keep moving—avoid traffic tie-ups and lost time.

Get them NOW!

In Business for Your Safety

ACCO

AMERICAN CHAIN DIVISION
AMERICAN CHAIN & CABLE

TRADE MARK

York, Pa., Boston, Chicago, Denver, Houston, Los Angeles, New York, Philadelphia, Pittsburgh, Portland, Ore., San Francisco, Bridgeport, Conn.
In Canada: DOMINION CHAIN COMPANY, LTD., Niagara Falls, Ontario

Check your tire chains now. Make necessary repairs early. Order new chains from your Weed Chain distributor

CUT YOUR "RED-LINE" TIME WITH "*Moly*" GREASE

less wear means more time on the road — and "MOLY" grease reduces wear

The proof is in — findings of independent research . . . major oil companies' tests . . . the experience of hundreds of fleet operators — all agree that "Moly" grease reduces wear.

The reason? "Moly" grease maintains lubrication under the impact of shock loading . . . the wiping action of reciprocating motion . . . water splashing from rain-drenched pavements. The lubricant film provided by conventional grease is broken time and time again by these forces. Then metal surfaces rub together — and parts soon need to be replaced.

"Moly" grease provides full-time lubrication . . . means fewer breakdowns . . . more time on the road.

Climax supplies Molysulfide® additive to leading oil companies. If you'd like more technical information on greases containing Molysulfide, write Climax.

ORDER "MOLY" GREASE BY BRAND FROM THESE MAJOR OIL COMPANIES

Cities Service Oil Company Limited
Trojan HM Grease

Sinclair Refining Company
Litholine® Moly Grease

Skelly Oil Company
Skelly Supreme Multi-Purpose Grease with Moly E.P.

Phillips Petroleum Company
Philube A Special

Standard Oil Company (Indiana)
Stanolube HD Moly

Frontier Refining Company
Frontier Moly-Lith

Mobil Oil Company
General Petroleum Co.
Magnolia Petroleum Co.
Mobilgrease Special (with Moly)

Gulf Oil Company
Gulflex Moly

Sun Oil Company
Sun Multi-Duty (Moly)
Sun Heavy-Duty Chassis Lubricant (Moly)

Standard Oil Company (Kentucky)
Standard Moly MP Lubricant
Mobilgrease Special (with Moly)

Continental Oil Company
Conoco Ramil M Grease No. 0
Conoco Ramil M Grease No. 1

American Oil Company
159 Amoco Molylith #2

Jenney Manufacturing Company
Jenney All Purpose "Moly Grease"

CANADA

The British American Oil Company Limited
B-A Barimol Heavy

Cities Service Oil Company
Arkansas Fuel Oil Corp.
Orange State Oil Co.
Trojan HM Grease

Sun Oil Company Limited
Sun Multi-Duty (Moly)
Sun Heavy-Duty Chassis Lubricant (Moly)

Texaco Canada Limited
Molytex

Canadian Oil Companies, Limited
White Rose Ultra Moly Grease

Imperial Oil Limited
Esso MP Grease (Moly)

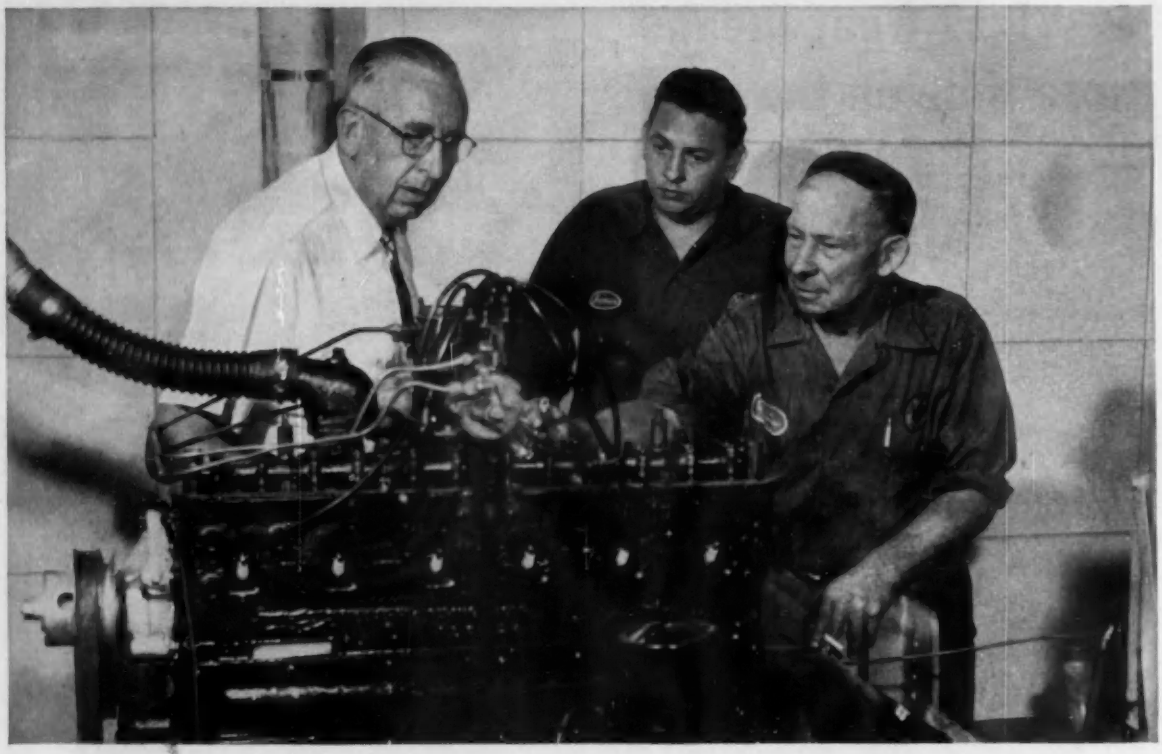
CLIMAX MOLYBDENUM COMPANY

A Division of American Metal Climax, Inc.

500 Fifth Avenue, New York 36, N. Y.

Piston ring technical assistance...

Perfect Circle service to fleet maintenance supervisors



Severe and unusual operating conditions bring on erratic performance...rapid wear...failure of engine parts.

Fleet maintenance supervisors who work with Perfect Circle distributors know they have on call the largest and best fund of practical ring engineering know-how that exists...the PC field service organization. This organization works with fleets constantly to diagnose and solve engine problems...to extend piston ring life...lower operating and maintenance costs.

Other reasons why the leading fleet operators say PERFECT CIRCLE all the way!

Power Service products that simplify maintenance operations, economically extend engine life.

Information Services provided through Doctor of Motors Clinics.

New Product Leadership that assures customers of the most advanced products progressive engineering can provide.

PERFECT CIRCLE

PISTON RINGS — POWER SERVICE PRODUCTS

Hagerstown, Indiana

In Canada: Don Mills, Ontario

At the ATA Convention, Truck Fleet Operators . . .

. . . Decided to Fight Piggy-Back Abuses

"One of the most devastating body blows this industry has suffered in a long time." American Trucking Assns. Executive Committee Chairman Neil J. Curry used these words to describe the Interstate Commerce Commission's recent freight forwarder/piggy-back decision (I&S Docket 6993) at ATA's annual convention last month in Los Angeles, Cal. Following Curry's fighting talk — and in response to demand from carrier conferences, ATA's Executive Committee laid the battle lines for a campaign to amend the IC Act to end "abuses" of piggy-back. Two major targets pinpointed at the convention were . . . Railroads offering captive piggy-back service in areas where they have no truck operating authority, and . . . Freight forwarders offering volume piggy-back service without the usual consolidation and distribution functions.

. . . Set a New Highway-Use Tax and Reciprocity Policy

The Executive Committee also adopted a new highway-use tax and reciprocity policy. In brief, it (1) opposes any highway-use taxes except license plate and fuel levies, (2) seeks elimination of multi-state registration of the same vehicle, (3) calls for equal taxation of interstate and intrastate operations, (4) asks that graduated license plate fees for combinations be applied to the power unit only, (5) allows pro-rata vehicle registration among the states, (6) recommends mileage as the basis for allocation of fuel taxes among the states.

. . . Took a Stand on Changes in ICC Driver Regs

Major policy was also laid down when the Committee adopted a 10-point industry stand on the proposed changes to the ICC's Driver Regs (June, page 186). It calls for RETENTION OF PRESENT rules (1) exempting certain drivers from filling out logs, (2) allowing extra driving time in adverse weather and emergencies, (3) exempting from driving time the hours a driver spends traveling in a vehicle when he is not in control of it, and (4) limiting "on-duty" time to 70 hours in an 8-day period. It OPPOSES (1) detailed "on-duty" definitions, (2) a daily mileage limit, (3) putting a driver "out of service" when unforeseen circumstances do not allow him to complete his usual trip within the limits of the Regs, and (4) any limit to driver work time when he's not driving, with special recognition for the particular operating problems of certain carriers. It ASKS that (1) the deadline for forwarding driver logs be the 20th of the succeeding calendar month, and (2) drivers using sleeper cabs be permitted to accumulate their 8 hours of "off-duty" in two or more periods of at least two hours each.

DETROIT DISPATCH

REPAIR AND SERVICING COSTS FOR line haul vehicles average 5.2¢ per mile, says first report from the Budd Co.-ATA Foundation truck cost study project. Range is from a low of 2¢ to a high of 9.9¢ per vehicle mile. Average on a ton-mile basis comes to 0.48¢. Study covers Class 1 and 2 ICC carriers with 5 per cent or less leased mileage. For details by regions, see page 300, this issue.

STUDY IS based on carrier's reports for 1957, shows little change from 1955 costs. At that time (May '56, page 72), the average for 28 Class 1 fleets for repair and servicing of line haul vehicles was 5.51¢ per mile, ranged between 3.47¢ and 10.42¢.

TRAILER FLOOR RATINGS ARE under study. ATA's Regular Common Carrier Conference would like to work out standard specifications such as light, medium and heavy-duty floors including strength ratings for lift truck loading, standing and moving load limits.

NEW ALUMINUM ENGINE IS being field tested by one of the car makers in taxicabs and fleets. It plans to build some 5000 of the new 6-cyl powerplant for this purpose.

CHECKER'S SUPERBA IS now moving into local showrooms. Maker is setting up a dealer network to handle both the new car (Sept., page 140) and Checker cabs.

CAST ALUMINUM MUFFLER IS being studied. Advantages are lighter weight—up to 60 per cent less than mufflers now used, considerably less external corrosion, less internal corrosion, because of the "fast heat" quality of cast aluminum. Casting includes fins and designed variations in wall thickness for improved heat dissipation.

WARRANTIES ON passenger cars are in the news again. Unofficial report is that American Motors now guarantees most mechanical parts for 12 months or 12,000 miles. Ford and Chrysler are also reported reconsidering one-year

WASHINGTON WATCH

NEW JERSEY'S PLAN TO use surplus toll receipts from its Turnpike to subsidize railway commuter lines is now in the ash can. It was referred to the voters earlier this month in a statewide referendum, suffered (according to one source) a "crushing defeat."

SHOULD A RAILWAY TRUCK line subsidiary be allowed to expand its commodity rights just because the railroad carries the commodity in question? Supreme Court has the question up for decision in a case involving the Southern Pacific Railroad, its subsidiary—Pacific Motor Trucking and the transportation of new cars.

WHERE A SCHOOL district supplies the fuel for contract school bus service, the federal fuel tax does not apply. Internal Revenue Service (in Revenue Ruling No. 59-319) says this is a sale to a local government for its exclusive use and, as such, is tax exempt.

STREAMLINING OF federal regulatory agencies continues to interest the Administration. Latest suggestion, made in the so-called Hector report, would give the appropriate executive department control over regulatory policy, planning and administration. Judicial functions would be handled by a separate administrative court.

MIDWESTERN RECIPROCITY PACT CAME into being last month when representatives from Iowa, Illinois, Nebraska and South Dakota signed the agreement. Wisconsin is expected to join following legislative approval. Effective Jan. 1, 1960, it provides for pro-rata registration on a mileage basis.

WATCH EXCISE TAX application carefully when you buy parts, accessories or equipment. If it's a part of a truck, the tax is 10 per cent. If it's a part or accessory, the tax is 8 per cent. If it's not either, there's no tax. Internal Revenue Service has been issuing some hair-splitting decisions, so keep an eye on your purchases.

ATA FOUNDATION LAST month picked-up three new members—Eaton Mfg. Co.'s Axle Division, Clark Equipment Co.'s Brown Trailer Division and Dorsey Trailers. Seven other suppliers renewed their participation—Budd Co., Firestone Tire & Rubber Co., Highway Trailer Co., International Harvester

warranties. On the other hand, warranty costs continue to climb. Rough average for 1958 was $30-$40 per car as compared to $18 10 years ago.

FUEL CELLS AS a power plant are being studied by Allis-Chalmers. In simple terms, they're a battery without electrolyte. When "fuel" (electrolyte) flows into the cell, it generates electricity. When it's shut-off, the current stops. Using propane as the electrolyte-fuel, Allis-Chalmers has built a research vehicle (similar to a farm tractor) with a 3000-lb drawbar pull. Lab cells have been built to operate on water. Trick is to find the right catalyst to put in the cell to trigger the action.

MILEAGE PAYMENTS TO salesmen operating their own cars now average 8.91 cents per mile . . . as compared to 8.22 cents last year and 7.72 cents in 1957. Over a third of the 327 companies surveyed pay 9 cents per mile, says Wheels, Inc., a Chicago auto fleet leasing firm.

Co., Midland Ross Corp., Pure Oil Co. and Trailmobile, Inc. Additions give the Foundation a total of 28 members.

PRIVATE AND CONTRACT carriers are likely to be subject to the Transportation of Explosives Act. Senate has passed a bill, S1806, extending its coverage to these two groups. It needs only House concurrence come January. Pressure for the move stems from the Roseburg, Ore., truck explosion last August involving a carrier not subject to the Explosives Act.

CHECK YOUR Oct. 19 issue of Life magazine for White Motor Co.'s latest ATA Foundation promotion. It's a hard-hitting two-page message promoting removal of inter-state barriers to truck operation.

MAINTENANCE TRAINING AIDS ARE being discussed by representatives of ATA's Regular Common Carrier Conference and Automobile Manufacturers Assn. Presently, being explored are (1) development of a sound/slide film on good mechanical driving practices, and (2) compilation of a list of visual training aids available from manufacturers.

TRUCK TONNAGE

ACTUAL TONNAGE hauled by truck in August exceeded Aug. 1958 by 17.3 per cent, reports ATA's Research Dept. If the tonnage is adjusted to allow for the western state work stoppage a year ago, the increase drops to 10.5 per cent. For the first eight month of 1959, tonnage is up 20 per cent above the first eight months of 1958. Impact of last year's work stoppage is reflected in the regional picture. Rocky Mountain region shows a 99.1 per cent gain for Aug. '59 as compared to Aug. '58. In the Pacific region, the gain was 126.8 per cent. Only two of the other regions showed gains of more than 10 per cent—Central, up 15.6 per cent, and Southwestern, up 11.6 per cent.

Month	% Change from Previous Month	% Change from a Year Ago
August, 1959	− 3.8	+17.3
July, 1959	− 4.2	+18.9
2nd Quarter '59	....	+20.6
June, 1959	+ 4.2	+21.6
May, 1959	− 1.1	+20.4
April, 1959	+ 1.9	+25.2
1st Quarter '59	....	+15.6
March, 1959	+13.2	+25.0
February, 1959	− 2.2	+17.6
January, 1959	+ 2.7	+11.7
Full Year, 1958	....	− 1.1
4th Quarter '58	....	+ 6.2
December, 1958	+ 3.3	+17.4
November, 1958	−16.1	+ 0.8
October, 1958	+11.3	+ 3.2
3rd Quarter '58	....	− 2.1
September, 1958	....	+ 2.3

TRUCK AND BUS PRODUCTION

Make	Weeks Ending Oct. 17	Weeks Ending Oct. 10	Year to Date 1959	Year to Date 1958
Chevrolet	6,680	6,516	291,246	198,512
G. M. C.	1,221	1,561	68,174	45,217
Diamond T	92	88	4,043	4,450
Divco	80	80	2,998	2,282
Dodge and Fargo	1,729	1,271	62,384	42,804
Ford	8,163	7,910	274,094	171,350
F. W. D.	17	23	651	1,047
International	2,880	2,869	117,513	73,904
Mack	359	363	14,043	11,653
Studebaker	99	123	10,777	7,588
White	398	434	15,936	13,410
Willys	2,141	1,985	93,680	69,493
Other Trucks	70	70	3,003	2,473
Total—Trucks	23,929	23,315	960,140	644,153
Buses	70	35	1,858	2,581
Total—Trucks and Buses	23,999	23,350	961,998	646,774

Source: Automobile Manufacturers Association.

IN THIS ISSUE

. . . is the only complete-in-one-place **BUYERS' GUIDE** for truck, bus, passenger car and construction equipment fleetmen. For your convenience, we've split it into two sections . . .

1. Product listings with all names revised to current fleet usage begin on page 79

2. Manufacturers addresses are listed alphabetically starting on page 199

When you know who makes what you want, you can save time by turning to this section immediately.

. . . also there's the most up-to-date listing of **ASSOCIATIONS and ORGANIZATIONS** of interest and value to fleetmen. See page 261

THE ROAD AHEAD

A QUICK LOOK AT WHAT'S COMING TO HELP WITH YOUR ADVANCE FLEET PLANNING

FLEET SAFETY GOT a boost at the annual National Safety Congress held last month in Chicago. National Safety Council set-up a Motor Transport Conference, giving fleet safety men greater say in policies of the NSC. Project has been cooking for some 10 years. First Conference Chairman is J. P. Hightower, assistant vice president, Consolidated Freightways. New chairmen of NSC's Commercial Vehicle and Transit Sections (page 302, this issue) automatically become vice chairmen of the new group. At the same meeting, E. J. Buhner, chairman of the board of Silver Fleet Motor Express, was elected NSC vice president for motor transport.

NATIONAL TRUCK ROADEO IS to be combined with the annual meeting of ATA's Council of Safety Supervisors — "at the earliest convenience after 1960." Decision was made at ATA's annual convention last month in Los Angeles, Cal. Association's Executive Committee says the move should result in a week-long "show case" setting for the safety activities of the trucking industry. Usual past practice has been to hold the Roadeo immediately before ATA's annual convention in the fall. Safety Supervisors meet in the spring, would presumably continue to do so as part of the new truck safety week.

YOU CAN LOSE A TRUCK IN New Jersey if your drivers are importing untaxed cigarettes into the state. Jersey law provides for impounding and sale of vehicles used in such traffic, and officials there report an upsurge in driver smuggling of cigarettes from the no-tax state of Virginia. Even if the truck isn't sold, it still means a two or three week delay until the charges are settled, transfer of the legitimate freight and storage charges.

IMPORTANT SAFETY REG court test is coming-up in New Jersey. It results from the gasoline truck and bus collision near New Brunswick, N.J., early last month that resulted in 12 deaths. Everybody is on the spot. U.S. District Attorney in Newark has charged both the carrier and the leaser of the truck with Safety Reg violations. An editorial in a nearby newspaper puts a squeeze on the ICC by saying, if the charges are true "the public will want to know what authorities were negligent."

DOMESTIC TRUCK SALES SHOULD top 990,000 units this year, go to 1,100,000 in 1960, says Phil J. Monaghan, GMC Truck & Coach general manager. As of the end of August, as shown below, truck sales were only 32,000 less than 1958's 12-month total. (Note: New Truck registrations by states appearing on page 60, this issue, are 8-month totals. Next month's chart will show the 9-month data.)

In thousands of units, except bus sales are in actual numbers	New Truck Registrations		Truck Factory Sales—Domestic		Truck Trailer Shipments		Bus Factory Sales—Domestic		Truck and Bus Tires				
									Replacement Shipments		Original Equip. Shipments		Inventory End of August
	August	8 Months	August	8 Months	August	8 Months	August	8 Months	August	8 Months	August	8 Months	
1959	88.1	646.4	47.9	693.4	5.9	46.2	56	1448	873.9	6418.8	276.2	3183.6	3053.7
1958	64.0	475.0	47.0	443.7	4.5	31.3	259	2030	871.4	5777.1	207.9	2118.2	2985.9

MIDLAND EMERGENCY RELAY VALVE
– Guardian of the Safety of a Nation

Midland products include:

Air brakes for the truck and trailer industry
Vacuum power brakes for the automotive industry
Equipment for the Transit industry
Control devices for the construction industry
Midland Welding Nuts for assembling metal parts

Write for detailed information

MIDLAND-ROSS CORPORATION

AIR MIDLAND BRAKES

Owosso Division • Owosso, Michigan
ONE OF THE "400" LARGEST AMERICAN CORPORATIONS

"Engineer Approved"

Highest Performance –
Lowest Maintenance Cost

The PISTON used and Recommended by over —70% of all Truck and Bus Manufacturers

Pistons for every Engine — Gasoline or Diesel

Experience Records of Operators Everywhere Prove Fleets Roll more Profitably with ZOLLNER Piston Equipment

Expertly engineered pistons make a big difference in engine performance — and operating costs. That's why Zollner "Engineer Approved" Pistons are the dominant specification of fleet operators. Engine manufacturers work hand-in-hand with Zollner engineers in the development of the most efficient piston for each heavy-duty engine service. Over 70% of all makes of trucks and buses are Zollner equipped. Only when you use Zollner can you be sure that your piston equipment is expertly designed, precision-made and engineer-approved for utmost performance and economy of operation. Profit by specifying Zollner, always.

Always Specify ZOLLNER PISTONS

HEAVY DUTY PISTONS by

ZOLLNER

ZOLLNER CORPORATION • FORT WAYNE, INDIANA

Bartlett

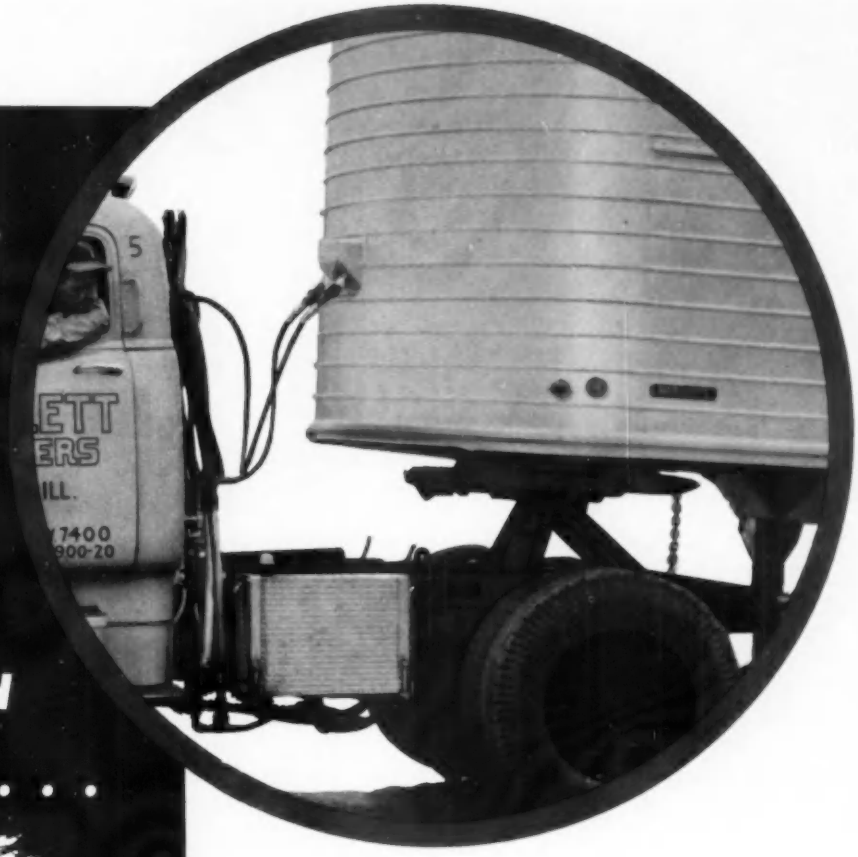
FAST

EASY

DOUBLE CHARGE

PRECISION

DOCKING . . .



WITH THE BARTLETT

HYDRAULIC 5TH WHEEL!

You can spot up to 150 trailers a day

You can cut your spotting costs 2/3

You can dispatch your driver by radio

You can dock closer together

You can make it pay for itself in 90 days

USED BY ALL TRUCKERS . . .
WHO ARE COST CONSCIOUS!

THE QUALITY LIFTING 5TH WHEEL

LESS DANGER AND ACCIDENTS

When snow and ice comes—very flexible for . . . Docks . . . Yard . . . Piggy Back . . . Fishy Back . . . Roller Unloading . . . House Moving.

LIFTS 14 INCHES HIGH

No cranking necessary—does not carry load on cylinder . . . is trouble free—air or vacuum jaw controls.

Bartlett

TRAILER CORPORATION

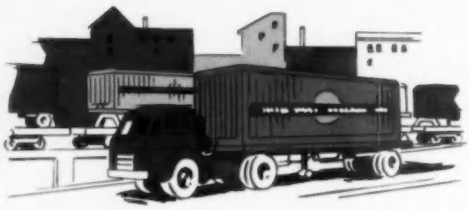
3080 ARCHER AVE.
CHICAGO 8

CORNER OF ASHLAND
VIRGINIA 7-1160

VERSATILITY *Plus*

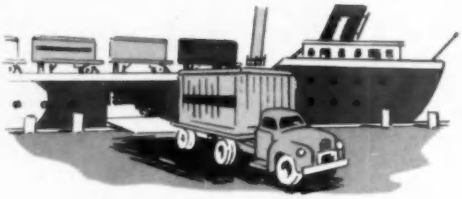
. . . BARTLETT'S PROVEN QUALITY

MORE JOBS HANDLED BETTER BY BARTLETT

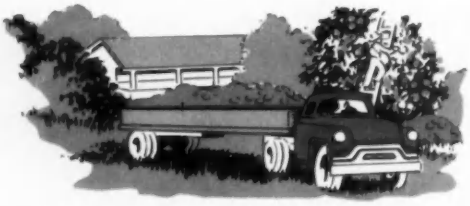


All Railroad Piggy Back Loading Time Reduced

House Moving—5th Wheel lifts house up and helps to roll on new foundation



Fishy Back operations could not manipulate economically without this help.



Dumping Oranges from Groves into Washing Pits—materially cuts costs

Lift Boom Mounted on 5th Wheel can Boom or Lift any ordinary Tractor and tow in

SIMPLICITY IN MOUNTING

Can Be Done in Any Good Truck Shop

Unit complete with P.T.O., Pump, Shaft-Valves. With special Heavy Duty 5th Wheel.

Load is not carried on cylinders but rolls in track cuts line pressure and ring replacements

OUTLIVES ANY OTHER 2 TO 1

BARTLETT HYDRAULIC 5TH WHEEL

Shipped Assembled Ready to Mount

Bartlett

TRAILER CORPORATION

3080 ARCHER AVE. CORNER OF ASHLAND
CHICAGO 8 VIRGINIA 7-1160

Fleet owners speak up about tire cord

How do blue chip truckers rate the different tire cords now in use? For price? For performance? What do they like, dislike about rayon cord? Nylon cord? In short, what facts go into shaping tire-buying preferences. A lot rides on the answers . . . for truckers, for truck and tire manufacturers, and for us, The Chemstrand Corporation, a major producer of nylon yarn for tire cord.

To get straight, objective answers, we hired a well-known research organization. They interviewed 115 major private and common carriers, each operating over 100 trucks . . . fine-combed their tire records, double-checked with their personnel. Less than 60 days ago the survey was submitted . . . two inches thick. Obviously, we can't reprint the entire report on this page . . . but here are a few of the startling facts brought out by the survey.

Q What tire cord would you rate best in performance *without regard to price?*

A Nylon by a ratio of 3⅓ to 1.

Q Which cord would you rate best in over-all dollar value?

A Nylon by more than 2 to 1.

Q Which cord would you prefer in the following specific use situations?

A
1—routes of 250-500 miles . . . . . nylon by nearly 3 to 1
2—routes over 500 miles . . . . . nylon by 3½ to 1
3—on trailers . . . . . nylon by more than 2 to 1
4—on tractors . . . . . nylon by 2½ to 1
5—on heavy loads . . . . . nylon by nearly 3 to 1

Q What has been the proportion of your rayon vs nylon new replacement tire purchases over the last 3 years?

A

Year	Nylon %	Rayon %
1957	31	69
1958	52	48
1959	61	38

Q When you specify the tire cord you want on new equipment purchases, how do nylon and rayon compare?

A When cord was specified, 46% of the carriers got nylon exclusively, 27% rayon exclusively, 25% nylon and rayon.

Q Running both 10:00 x 20 rayon cord and nylon cord tires until exhaustion, what is the average number of retreads for each?

A Rayon averaged 2.4 retreads while nylon showed 3.6. Based on all carriers reporting, nylon gave *half again* as many retreads as did rayon.

Q On the average, what is the total milage obtained from 10:00 x 20 rayon and nylon tires?

A Rayon averaged 133,817 miles. Nylon averaged a total of 175,508 (or 30% better average mileage).

Q What would be the average cost per 100 miles for 10:00 x 20 rayon and nylon tires?

A Rayon cost $.111 while nylon cost $.096. When related to 10,000,000 tire miles, the savings on nylon amount to $1,487.13.

It comes to this. When fleet owners speak up about tire cord . . . they speak up loud and clear for nylon. Maybe these answers check with your own experience. Maybe they raise questions about rayon and nylon tire cord you never thought of before. We'll be glad to give you facts to relate to your own operation. Simply call or write Merchandising Department, The Chemstrand Corporation, 350 Fifth Ave., New York 1, N. Y.

CHEMSTRAND® NYLON

Chemstrand makes only the yarn; America's finest mills and manufacturers do the rest.

THE CHEMSTRAND CORPORATION • GENERAL SALES OFFICES: 350 FIFTH AVENUE, NEW YORK 1, N. Y.
DISTRICT SALES OFFICES: 350 Fifth Ave., New York 1; 3½ Overwood Rd., Akron, Ohio; 197 First Ave., Needham Heights, Mass.; 129 West Trade St., Charlotte, N. C.; California Office: 707 South Hill St., Los Angeles 14. Canadian Agency: Fawcett & Co., 34 High Park Blvd., Toronto, Canada • PLANTS: CHEMSTRAND® NYLON—Pensacola, Fla.; ACRILAN® ACRYLIC FIBER—Decatur, Ala.

Read why so many trailer builders prefer Pittsburgh Superfine Fiber Glass Insulation

For Cargo and Cab Roofs. Lightweight Superfine Fiber Glass Insulation is easily handled, quickly and accurately cut and placed on the roof section of this cargo truck in less than three minutes.

Three trailer manufacturers have this to say about their experiences with Pittsburgh Superfine Fiber Glass Insulation:

Handling Problems Eliminated

"Prior to using Superfine, few men in our 500-man work force could handle the material formerly used without detrimental effects, particularly irritating skin inflamation. This discomfort caused a lowering of morale. But, the use of Superfine eliminated this." — Pennsylvania Trailer Manufacturer.

Easy, Time-saving Installation

"Superfine is 50% lighter than comparable insulating agents. It's easy to handle and work with, and it takes less time to insulate the motor housing fire wall and cargo roof with Superfine." — Ohio Trailer Company

Lifetime Insulation

"Its lightweight factors means greater payloads for a trailer. And because it's water-proof, flame-proof and vermin-proof, Superfine will last the life of the trailer." —Trailer Corporation, Illinois.

For Insulated Trailer Walls. In this custom-built refrigeration trailer, a six-inch thickness of Superfine is permanently held in place by structural channels, will help keep trailer temperatures at -30° F in 90° outside heat.

For Motor Housing Fire Walls. On this pick-up express truck, Pittsburgh Superfine Insulation is held in place permanently with special spot welded pins, eliminating a former hole-drilling and nut-and-bolt operation.

PITTSBURGH SUPERFINE HAS THESE ADVANTAGES FOR YOU, TOO.

Find out about them. You can get complete information from your nearest PPG Fiber Glass Sales Office, or by writing *Pittsburgh Plate Glass Company, Fiber Glass Division, One Gateway Center, Pittsburgh 22, Penna*

Sales Offices: Charlotte, Chicago, Cincinnati, Cleveland, Detroit, Houston, Los Angeles, Minneapolis, New York, Philadelphia, Pittsburgh and St. Louis.

FIBER PPG GLASS PITTSBURGH PLATE GLASS COMPANY

I'M TIRED OF BEING *SOAKED!

*WITH BIG JACK REPAIR BILLS

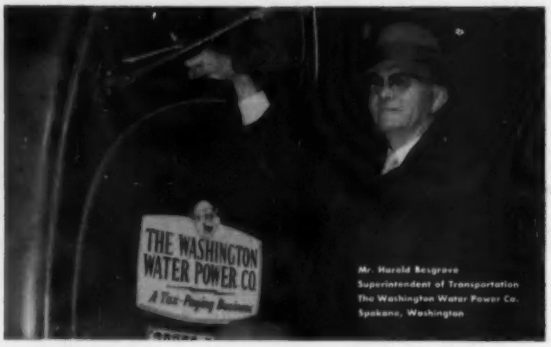
Aren't you, too?

It's easy to Repair-it-yourself with a Jack-Pack Kit. Prices start at about $2.50

Order from your jobber

or write for FREE FOLDER "Facts on Jacks"

JACK-PACK MFG. CO., 2115 N. Marianna Ave., Los Angeles 32, Calif.



"KIM HOTSTARTS keep us ready to roll"

Like The Washington Water Power Company, KIM HOTSTART engine preheaters will keep your equipment ready to go when the temperature is low. KIM Hotstarts plug into electric circuit when trucks are idle, draw off cold water, heat it, and circulate it back through the engine. High corrosion resistance. Fits gas or diesel engines. See your automotive supplier or write to us....

KIM HOTSTART MFG. COMPANY
West 917 Broadway Avenue Spokane 1, Washington

DATES and DOINGS

NOVEMBER

10-11—Short Haul Carriers Section, Local Cartage National Conference, American Trucking Assns., Fall Meeting, Somerset Hotel, Boston, Mass.

11-12—Indiana Bus Assn., Silver Anniverary Meeting, Sheraton-Lincoln Hotel, Indianapolis, Ind.

16-19—International Soft Drink Industry Exposition, sponsored by American Bottlers of Carbonated Beverages, St. Louis, Mo.

DECEMBER

8-9—Cartage, Assembly & Distribution Section, Local Cartage National Conference, American Trucking Assns., Congress Hotel, Chicago, Ill.

13-16—The Materials Handling Institute, Inc., Annual Meeting, Savoy-Hilton Hotel, New York City.

JANUARY 1960

16-24—Chicago Automobile Trade Assn., 52nd Annual Chicago Automobile Show, International Amphitheater, Chicago, Ill.

18-21—American Roadbuilders' Assn., 58th Annual Convention and Highway Materials and Services Exhibit, Netherland Hilton Hotel, Cincinnati, Ohio.

24-27—Truck Trailer Manufacturers Assn., 19th Annual Convention, Del Coronado Hotel, Coronado, Cal.

25-28—National Automotive Accessories Manufacturers of America, 33rd Annual Exposition, Navy Pier, Chicago, Ill.

28-29—Private Truck Council of America, Annual Convention, Hotel Roosevelt, New York City.

30-Feb. 3—National Automobile Dealers Assn., 43rd Annual Convention and Equipment Exhibition, Shoreham Hotel, Washington, D. C.

FEBRUARY

10-13—International Automotive Service Industries Show, The Coliseum, New York City.

MARCH

10-13—1960 Pacific Automotive Show, Denver City Auditorium, Denver, Colo.

29-Apr. 2—Western Highway Institute, 14th Annual Meeting, Royal Hawaiian Hotel, Honolulu, Hawaii.

APRIL

7-9—Colorado Motors Carriers' Assn., Annual Convention, Brown Palace Hotel, Denver, Colo.

7-9—National Truck, Trailer and Equipment Show sponsored by the Automotive Council of Los Angeles, Great Western Exhibition Center, Los Angeles, Cal.

22-23—Heavy-Specialized Carriers Conference, American Trucking Assn., Annual Convention, Cincinnati, Ohio.

24-28—Local Cartage National Conference, American Trucking Assns., Annual Convention, Hotel New Yorker, New York City.

how safe are your trailer brakes?

WAGNER PROVIDES A COMPLETE TRAILER AIR BRAKE SYSTEM ALL IN ONE PACKAGE FOR FAST, ECONOMICAL FIELD INSTALLATION

Be sure that your trailer brakes are safe. Equip all of your trailers with Wagner Air Brakes for dependable stopping power.

Each Wagner Trailer Air Brake Kit contains a complete trailer brake system all in one package. All components are identical to the Wagner Components used as original equipment by leading truck, trailer, tractor, bus and off-the-road equipment manufacturers. Reliability is assured.

All needed parts, connections, and fittings are included. They fit easily into proper position with little or no drilling or tapping. Installation time and labor are kept to a minimum. Detailed instructions are easy-to-follow. Kits are available for both single axle and tandem axle trailers.

Be sure of your trailer brakes. Changing over to Wagner Air Brakes is a good investment in safety and efficiency. Send for your free copy of Wagner Catalog KU-201 which fully describes the many types and kinds of equipment that make up the *complete* Wagner Air Brake line.

REMEMBER, WHEN ORDERING NEW EQUIPMENT, BE SURE TO SPECIFY WAGNER AIR BRAKES

Wagner Electric Corporation

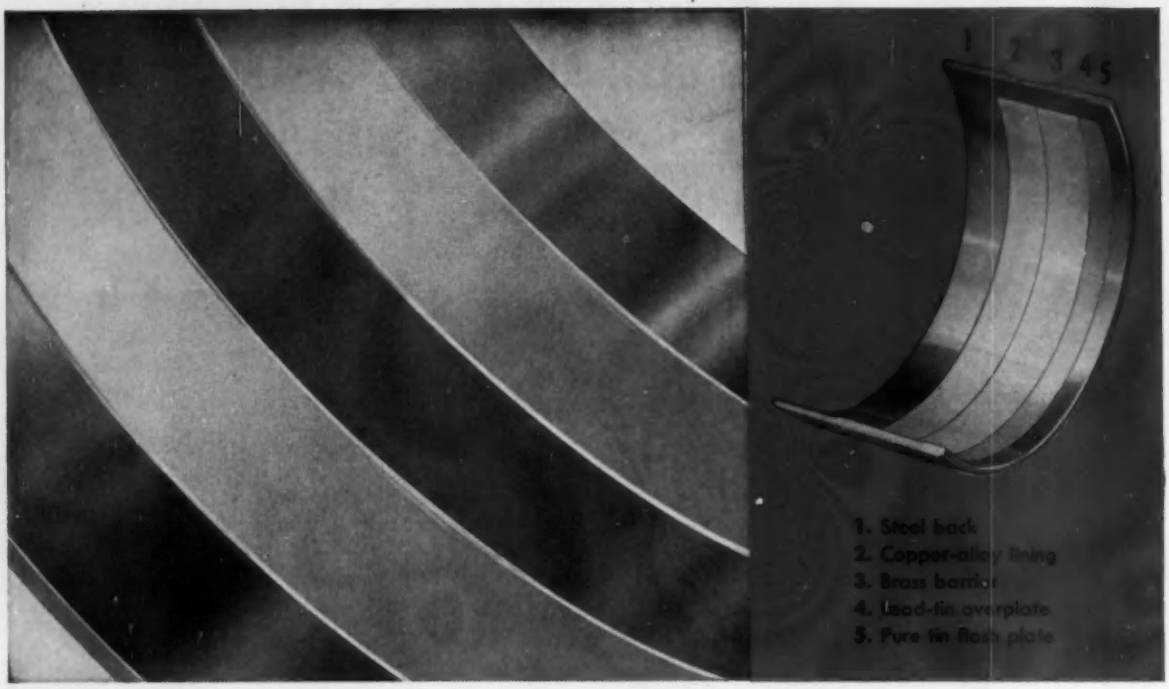
6470 PLYMOUTH AVENUE, ST. LOUIS 14, MO., U. S. A.

WK59-6

The complete Wagner Air Brake Line includes many types and kinds of equipment—all fully described in Catalog KU-201. Write for your copy today. And remember, when ordering new equipment, be sure to specify Wagner Air Brakes.

LOCKHEED BRAKE PARTS, FLUID, EXCHANGE SHOES and LINING • AIR HORNS • AIR BRAKES • TACHOGRAPHS • ELECTRIC MOTORS • TRANSFORMERS • INDUSTRIAL BRAKES

Better products, *faster*, from your Federal-Mogul jobber:



Federal-Mogul actually "pours" extra thousands of miles into every sintered engine bearing

Pure copper-lead powder is one of *five* layers—each vital to longer bearing life, lower maintenance costs

Every tiny particle of this super-fine metal powder is an alloy—a perfect proportion of copper for strength, and lead for softness. Federal-Mogul makes it by a patented process to give bearings *extra-long* service life.

Sintered engine bearings actually are made in *five* layers: 1. Steel back for strength and bond; 2. Copper-lead sintered lining; 3. Brass barrier for lining stability; 4. Lead-tin overplate for smoother "break-in"; 5. Pure tin flash plating for corrosion resistance. They're the finest-quality engine bearings on the market today.

No matter what type or size you need, Federal-Mogul has the *right* engine bearing—quality-engineered to go in easier, stay in longer. That's why fleet owners prefer them 2 to 1! And your Federal-Mogul jobber gives fastest service. Call today!

FEDERAL-MOGUL ENGINE BEARINGS

BEARING FEDERAL Mogul SERVICE

FEDERAL-MOGUL SERVICE

DIVISION OF FEDERAL-MOGUL-BOWER BEARINGS, INC. • DETROIT 13, MICHIGAN

LIPE Clutches Cut Truck Operating Costs

say increasing numbers of big users . . .

IT'S what the clutch does on the road that sells experienced truck users. Their only measuring stick is overall costs. In important and increasing numbers, that measure is causing them to buy Lipe Heavy-Duty DPB's . . . both on new trucks and as replacements of original equipment.

For more engagements per mile . . . for more miles between maintenance stops . . . for more ton-miles per year . . .

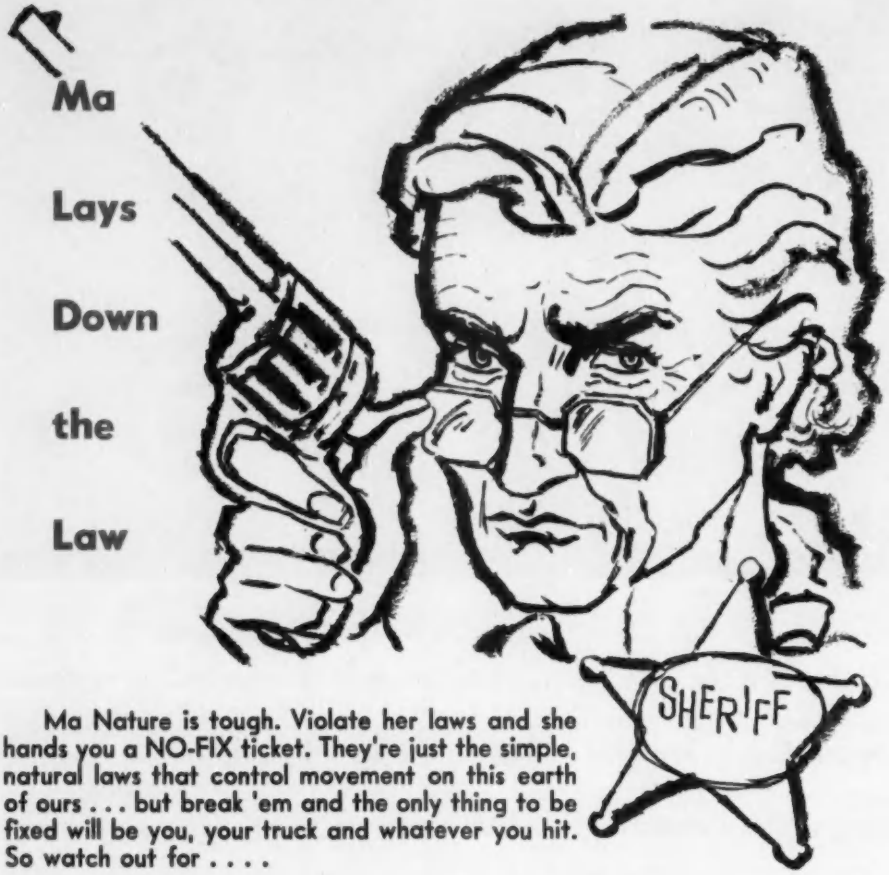
the trend is to LIPE!

Lipe Heavy-Duty DPB Clutches are available in single and two-plate types; 12", 13", 14" and 15" sizes; with torque capacities from 300 to 1900 ft.-lbs.

Lipe-ROLLWAY CORPORATION SYRACUSE 1, N. Y.

CCJ BULLETIN BOARD

Ma Lays Down the Law



Ma Nature is tough. Violate her laws and she hands you a NO-FIX ticket. They're just the simple, natural laws that control movement on this earth of ours . . . but break 'em and the only thing to be fixed will be you, your truck and whatever you hit. So watch out for . . . .

- Friction—It controls how soon you can stop. When your brakes, tires or the road surface ain't got it, increase your stopping distance . . . or you'll get it.

- Inertia—This one keeps you going in the direction you have been traveling. Forget it when the time comes to turn a corner or round a curve and you'll be reminded . . . but maybe too late.

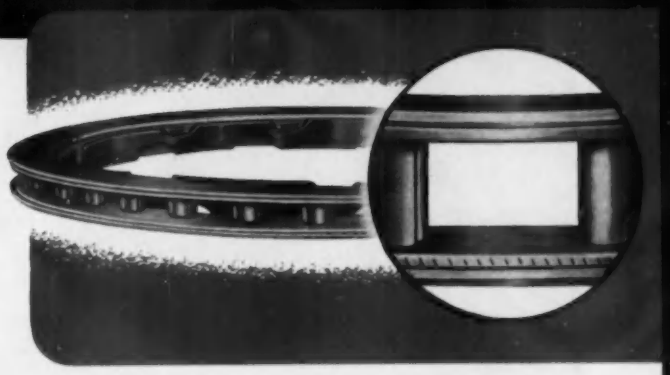
- Momentum—It keeps you going even when you take your foot off the gas. But unless you control Friction, it'll keep you going . . . into trouble.

- Impact—This is the bump that results when you forget Friction, Inertia and Momentum. It quickly multiplies itself into a crash. If you're going twice as fast as you should, the Impact is four times as great. At triple the speed, the Impact is nine times greater. Remember this arithmetic . . . don't learn it the hard way.

CLIP AND POST ON YOUR OWN BULLETIN BOARD —— REPRINTS AVAILABLE AT NOMINAL COST

Hastings Oil Rings Don't Plug

and here's why

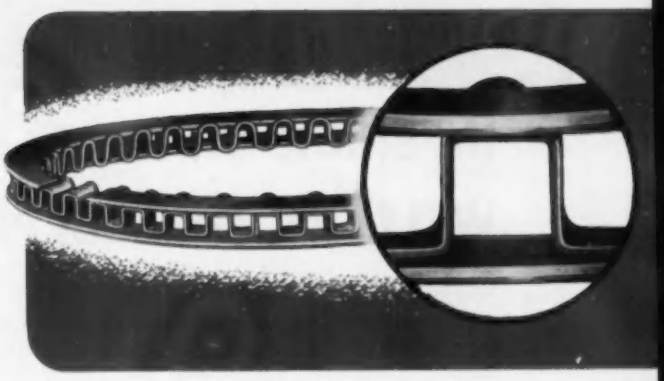


STEEL-VENT OIL

Today's high-compression truck engines, with larger piston displacement, pull an increased volume of air into the combustion chambers. If this moisture laden air gets by the rings, it mixes with oil and forms sludge.

Here is just one more reason why today—more than ever—it pays to install Hastings Piston Rings. Hastings oil rings don't plug because each type is designed for the most ventilation and oil drainage possible to obtain. And—chrome or steel—each is "motor engineered" as a balanced part of the right ring combination to fit every specific replacement application.

On your next ring job, call for Hastings—the product of replacement specialists—and be sure of good, trouble-free performance.



FLEX-VENT OIL

In these representative Hastings Oil Rings you can see for yourself the ample ventilation that assures efficient drain-back . . . prevents clogging . . . gives long-lasting oil control.

HASTINGS MANUFACTURING COMPANY • HASTINGS, MICHIGAN
Hastings Ltd., Toronto

Piston Rings, Oil Filters, Casite Additives, Spark Plugs

HASTINGS PISTON RINGS

TOUGH BUT OH SO GENTLE

TOUGH on oil pumping

GENTLE on cylinder walls

Hastings Aero-type Spark Plugs are engineered for replacement service in heavy-duty, industrial and extreme passenger car service. They operate over wider heat range, are less subject to fouling and electrode erosion.

INFERIOR BRAKE BLOCKS MAY WELL BE THE CULPRIT!

As you know, boosting profits depends largely on cutting costs. One good way to do both is to make certain when you buy brake blocks that you get the kind which will not only resist fade and wear well, but also not damage brake drums.

Raybestos Brake Blocks—custom tailored in the right combinations and thoroughly proving ground tested—sharply reduce heat checking and scored drums, and thus eliminate unnecessary, and mighty expensive, brake drum replacement. Regardless of your operation—local stop-and-go, intercity service, hauling over mountains—you'll want to insist on Raybestos Brake Blocks.

And keep in mind, too, the other fine Raybestos products that can mean so much to the profitable operation of your fleet . . .

Woven Molded Brake Blocks

Raylok and Ray-Metl Clutch Facings

PGT Heavy Duty Truck Sets

V-Drive and Automatic Transmission Plates

Heavy Duty Brake Fluid

RELINE WITH

Raybestos®

AMERICA'S BIGGEST SELLING FRICTION MATERIAL

RAYBESTOS DIVISION of Raybestos-Manhattan, Inc., BRIDGEPORT, CONN.

RAYBESTOS-MANHATTAN, INC., Brake Linings • Brake Blocks • Brake Fluid • Clutch Facings • Industrial Rubber Mechanical Packings • Asbestos Textiles • Engineered Plastics • Sintered Metal Products • Rubber Covered Equipment • Laundry Pads and Covers • Abrasive and Diamond Wheels • Industrial Adhesives • Bowling Balls

From West Germany comes this proven way to

LOWER YOUR TRUCK COST-PER-MILE

USE SOMETHING BETTER

ROBERT BOSCH *Heavy Duty* SPARK PLUGS

Made 3 ways better

What a difference in heavy duty service on trucks, tractors, buses!

1. ROBERT BOSCH Heavy Duty Spark Plug is the only plug with the diamond-hard Pyranit® insulator. Pyranit® resists high temperatures, mechanical damage, electrical failure.

2. The only plug with electrode alloys of ROBERT BOSCH specifications developed to withstand chemical actions and thermal stresses in the combustion chamber.

3. Heavy duty construction throughout, from over-sized center electrode to leak-proof seals, insures long-life-dependability.

With gasoline selling in Europe as high as 72 cents per gallon, industry simply had to find ways to cut costs sharply.

ROBERT BOSCH Heavy Duty Spark Plugs to the rescue! Careful cost records showed substantial savings through fuel consumption and long-life dependability...resulting in important reductions in costs-per-mile.

For years many industries have used ROBERT BOSCH Plugs exclusively. Made by the oldest manufacturer of spark plugs and used as standard equipment by many leading engine manufacturers.

ROBERT BOSCH Heavy Duty Spark Plugs are available in a complete range of sizes and heat ratings. Ask your supplier—or mail coupon below for more information.

ROBERT BOSCH CORPORATION Dept. C4
40-25 Crescent Street • Long Island City 1, N. Y.

Please send us full information about ROBERT BOSCH Heavy Duty Spark Plugs. We operate _____ trucks.

MY NAME _____

FIRM NAME _____

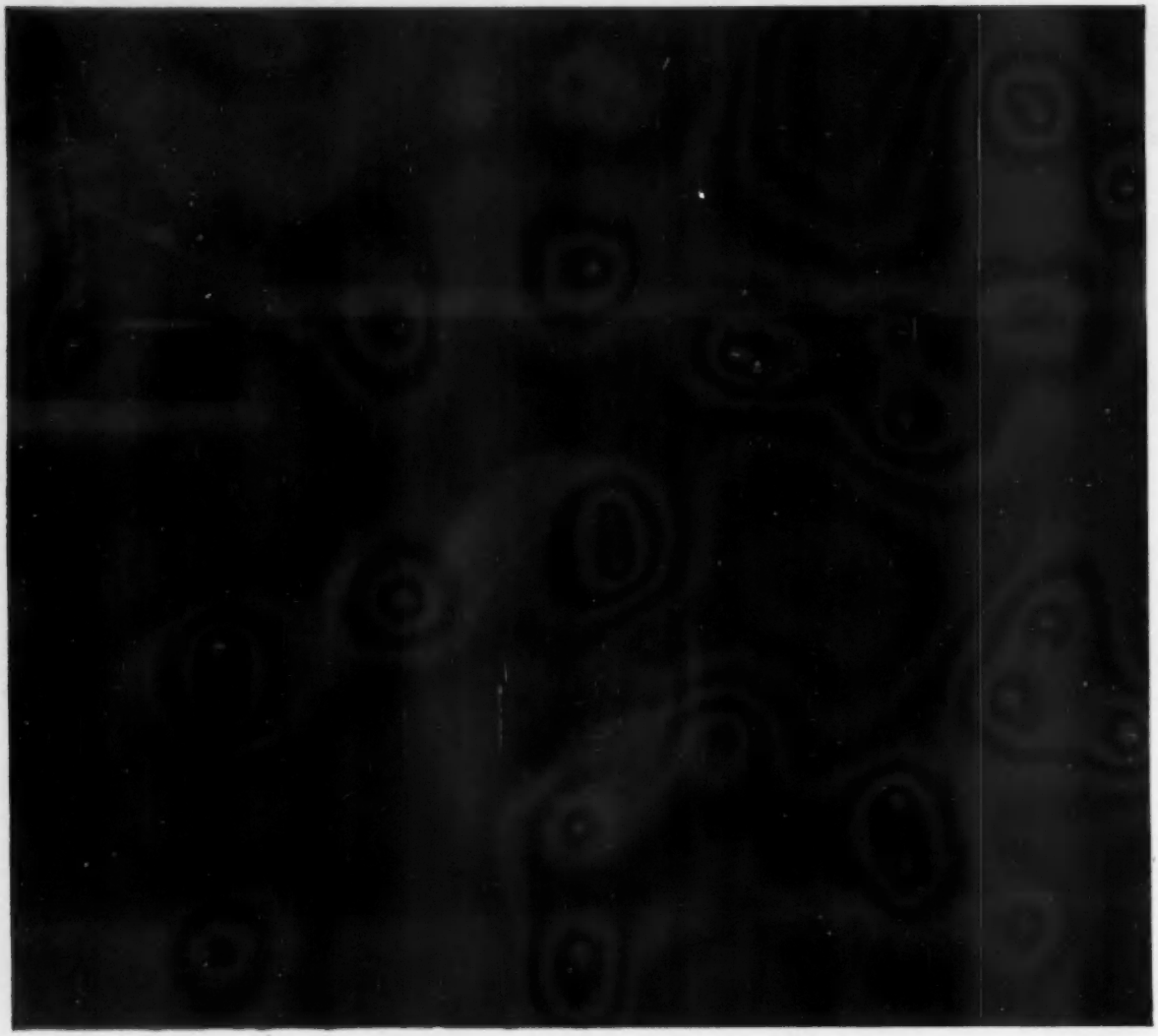
STREET _____

CITY _____ ZONE _____ STATE _____

ROBERT BOSCH CORPORATION

40-25 Crescent St., Long Island City 1, N. Y. 225 Seventh St., San Francisco 3, Calif.

® Reg. U. S. Pat. Off. ROBERT BOSCH GMBH Stuttgart



Less wear from heavy loads and rough roads with

MULTI-PURPOSE GREASE H

Here is one grease for every fitting, for every truck in your fleet. Multi-Purpose Grease H takes the place of three or more "special purpose" greases and gives better performance.

Multi-Purpose Grease H reduces wear, clings strongly to metal yet works freely for positive action. It withstands pressures from heavy loads and resists "squeezing out" under roughest road conditions. It seals out dust and resists washing of water. For longer mileage from all parts, specify Multi-Purpose Grease H!

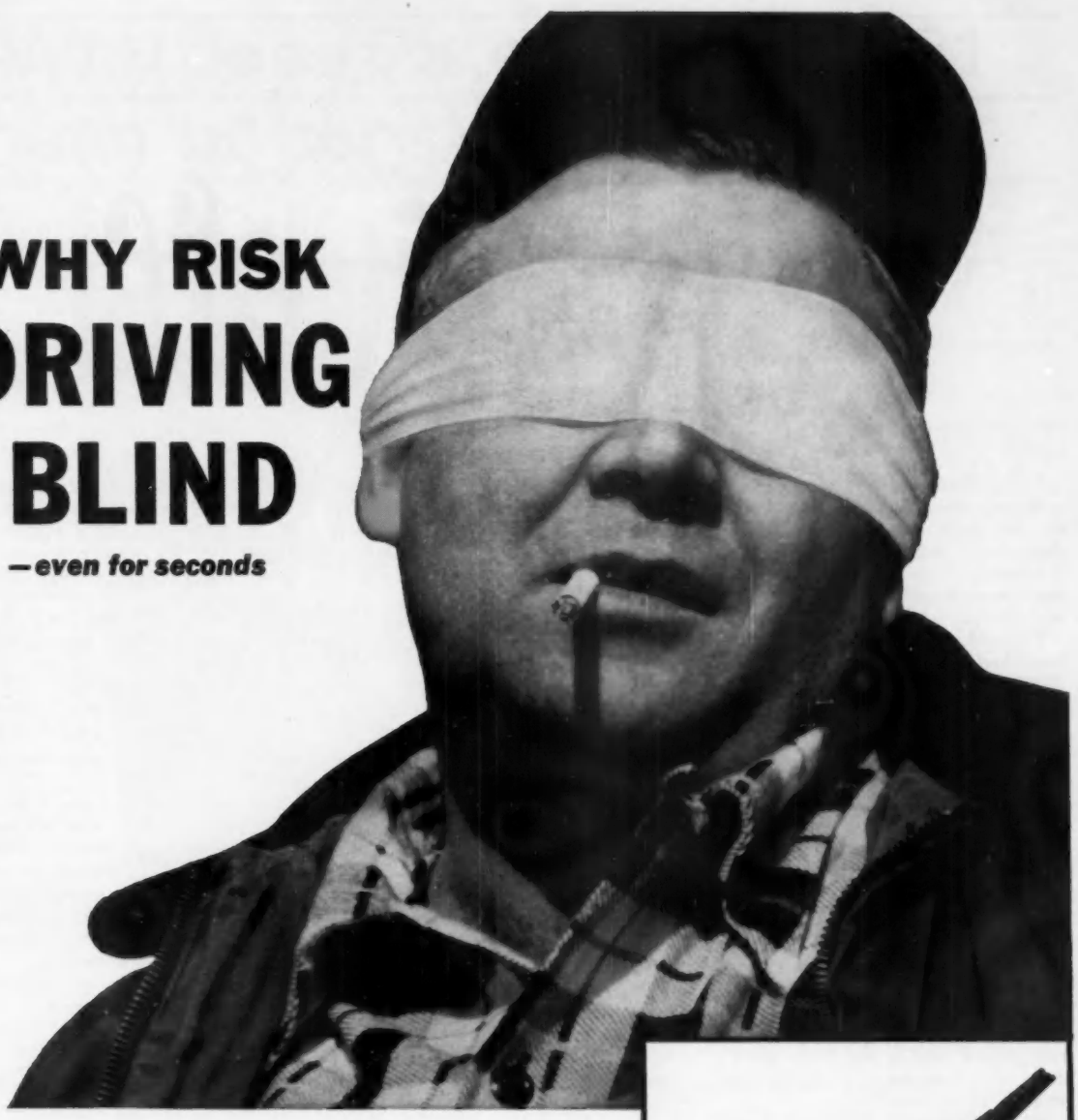
New! The Esso Fleet Check System takes all the guesswork out of preventive maintenance. It contains all the records and forms you need for your fleet, whether it be trucks or buses. If you operate a fleet in the area where Esso products are sold, contact your nearest Esso Office, or write: Fleet Engineering Service, Room 454, Esso Standard Oil Company, 15 West 51st Street, New York 19, New York.

Esso

In Industry after Industry..."ESSO RESEARCH works wonders with oil"

WHY RISK DRIVING BLIND

—even for seconds



Give your drivers the protection of

ROBERT BOSCH *Electric* Windshield Wipers

Safe—ROBERT BOSCH Electric Windshield Wipers won't falter or hesitate for a second . . . even when the driver steps on the gas, or when going uphill. *Safe*—faithful in any weather: rain, snow, sleet, bitter cold. *Safe*—operates even if the car engine dies, because it's powered by its own electric motor. Ask your ROBERT BOSCH distributor, or write us for folder and full information.

ROBERT BOSCH CORPORATION

40-23 Crescent St., Long Island City 1, N.Y. 225 Seventh St., San Francisco 3, Calif.

®Reg. U.S. Pat. Off. ROBERT BOSCH GMBH Stuttgart

Illustrated is ROBERT BOSCH Heavy Duty Electric Windshield Wiper, TYPE B. The most powerful wiper of its type. Will not burn out. Every wiper is subjected to a rugged trial run at the factory.

Laugh it off

Safety Department Steno: "I want a 12 ounce bottle of perfume that will set the blood coursing passionately through the veins of my boy friends. Something that will heighten their desire to make violent love to me. Can you fill that order?"

Salesgirl: "Surely. I have a brand here that will satisfy your maximum requirements. But, frankly, I consider it unsportmanslike. It's sort of like dynamiting fish."

CCJ

Diner Waitress: "Prices? Why, man, in this Diner you can get a shrimp cocktail, green turtle soup, prime ribs of beef, choice of two vegetables, salad, coffee and dessert all for seventy-five cents."

Truck Driver: "How in the devil can you afford to serve all that for just seventy-five cents?"

Waitress: "We use paper plates."

CCJ

Slim'N Greasy: "Listen here, woman, that's one of my good socks. What are you doin' strain' coffee grounds through it?"

Slim N' Greasy's Wife: "It's all right dear, I'm just straining a little coffee through your sock to clear it up. But don't worry, it ain't one of your clean socks."

CCJ

SHOP FOREMAN: "DO YOU SELL CANDY WITH WHISKEY IN THE MIDDLE?"

CANDY STORE CLERK: "YES, WE CERTAINLY DO."

SHOP FOREMAN: "WELL GIVE ME A QUART OF MIDDLES."

CCJ

Interline Steno: "How can I be certain you love me?"

Automotive Parts Clerk: "Because I can't sleep nights for thinking of you."

Interline Steno: "What does that prove? Papa can't sleep nights for thinking of you."

Ignition Specialist: "Well, it wush like thish. I wuz havin' trouble seein', and thu Doctor told me it wuz becaush of my drinkin'. He tol' me to cut out drinkin' an' my eyeshight would improve."

Carburetor Specialist: "Well did you?"

Ignition Specialist: "Yesh, I did fer a little while. But when I sthopped drinking, thingsh didn't look as good to me as when I wuz drinkin', so I started again."

CCJ

Hep Cat (Getting out of pink Cadillac): "Gimme a couple of skins worth of 'regular' Daddio, and right quick like a fox show me which way to your box."

Service Station Operator: "What box you talkin' about?"

Hep Cat (Twirling chain and poppin' his gum): "Your sandbox, man—this cat has gotta go!"

"Cici Jay"

"I'll run along. You're busy, and I'm probably distracting you."

THE TRUCK DISPATCHER AND HIS NEW BRIDE WENT FOR A CANOE RIDE IN THE BAY. SHORTLY THEY WERE CAUGHT BY AN UNDERTOW AND CARRIED QUICKLY OUT TO SEA BEYOND SIGHT OF LAND.

"OH LORD," PRAYED THE TRUCK DISPATCHER, "IF YOU WILL WASH US BACK TO SHORE, I WILL QUIT SMOKING, GAMBLING, DRINKING—"

"DON'T GO TOO FAR, HONEY," SHOUTED HIS BRIDE. "I THINK I SEE A SAIL."

CCJ

Did you hear the one about the carburetor specialist who had such a bad cold he could hardly whisper? Well, he went to the doctor's office late one night and knocked on the door and the doctor's wife answered.

"Is the doctor in?" he inquired in a barely audible whisper.

"No, he isn't," the wife answered, also in a whisper, "Come in."

CCJ

Diner Waitress: "You know that Safety Supervisor for Fleety-Fleet Express who stops in here every week or so?"

Short Order Cook: "Yeah, big blonde bruiser of a handsome devil. What about him?"

Diner Waitress: "He told me if I'd let him kiss me, he'd give me a job in his office as a file clerk."

Short Order Cook: "There's your chance, dearie, to get out of this hash joint. Tell me what happened?"

Diner Waitress: "Oh, I'm going to be his secretary."

CCJ

SESSIONS JUDGE: "DO YOU ADMIT THAT YOU WERE HAVING A FIGHT WITH THIS WOMAN?"

SPIFFLICATED FREIGHT LOADER: "YES, YOUR HONOR, AND I WOULD HAVE WON IF SHE HADN'T STARTED HITTIN' ME WITH HER CRUTCHES."

Resume Reading

Why does Patent #2841631 mean battery savings to you?

Three years ago Gould-National announced the Silver Cobalt/Sealed Charge battery and reported that this new construction gave 300% greater resistance to overcharge (No. 1 battery killer).

Now—millions of batteries later, we continue to make the same claim—for Silver Cobalt construction is actually better than promised.

In fact the difference between Silver Cobalt and the ordinary battery is so marked that the US Patent Office has issued Patent No. 2841631 covering this construction.

In Gould-National batteries and only in Gould-National batteries you get the advantages of Silver Cobalt/Sealed Charge—your assurance of 300% greater resistance to overcharge plus increased resistance to undercharge.

For complete information on what this, coupled with our unique Fleet Battery Maintenance Plan, can mean in cutting your battery costs, write today to: Fleet Department, Gould-National Batteries, Inc., St. Paul 1, Minnesota, the service is free.

Gould-National GN BATTERIES, INC.

GOULD-NATIONAL BATTERIES, INC.

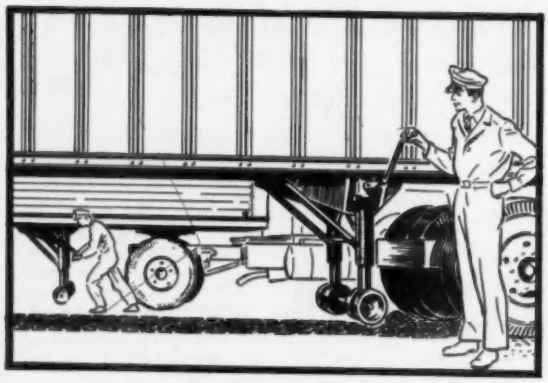
St. Paul 1, Minn.

LUBE LOGIC SIX Sure-money

STORE FUEL UNDER THE LOT NEXT DOOR

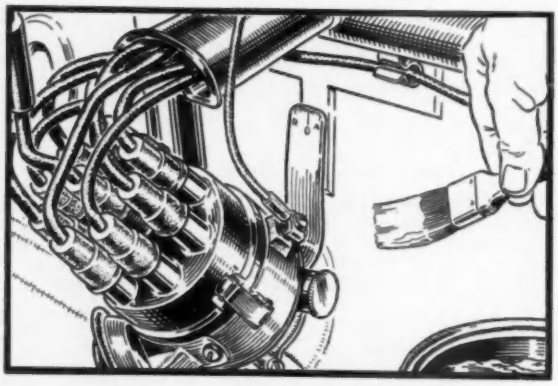
Lack of space for underground tanks was cutting off a midwest fleet operator from the advantages of bulk fuel storage. There just wasn't room on his own real estate to sink tanks. He and his TAE* were kicking the problem around when they both happened to notice the lot next door . . . a parking lot. The solution to the problem hit them both at the same instant. No time was lost. They cornered the parking lot owner, sold him a deal, made him the first parking lot operator to collect parking fees for a space six feet under.

Excavation was timed for a slack period. What losses the lot did incur were negotiated. It didn't amount to much. Tanks were sunk and black top replaced. Even the space lines were repainted. Now the parking lot gets a parking fee from two spaces . . . and the fleet operator has all the bulk storage he needs. Take a tip if you've got a similar problem . . . and get friendly with your neighbors.



END DOLLY DRUDGERY

Do cold mornings bring on a rash of sore sacroiliacs and delayed departures in your dock? Chances are dolly drudgery is doing it. Old-fashioned liniment won't cure it . . . neither will an old-fashioned grease. But TAEs*, all over the country, are cutting hours off hitch-up time with an answer that costs less than the price of a light lunch. Call yours and see.



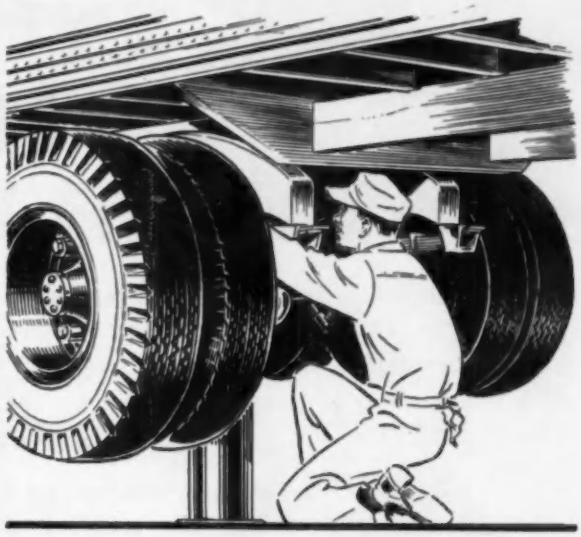
WATERPROOFED IGNITION MAKES STARTING EASIER

Are your batteries showing the strain of a heavy foot on the starter on damp days? Get your TAE* to show you how to waterproof ignitions with Texaco Rustproof L. It's a simple, five minute job that pays off with months of faster starts.

"SLEEPERS" you may be missing!

CORRODED SOCKETS SOLVED

If corroded sockets force you to change taillight bulbs with a light mallet and a pair of duck-nosed pliers, listen to this: put a drop or two of Texaco Rustproof L on the base when you install a new bulb. It will come out as easy as a highway patrolman's summons book . . . even after six months. The cleaner contacts you get might double bulb life, too.



WHY SLIDING TANDEMS STICK

We'll probably get some arguments on this one, but the theory has proved successful too many times to be wrong. It's not cold weather and stiffened greases that cause sliding tandems to stick. It's corrosion from mud and slush and sleet. Last winter, a lot of doubtful operators paid for the doughnuts and coffee when TAEs* bet them that Texaco Rustproof L would solve this problem. If you're in the mood for a little friendly argument, challenge your local TAE on this.

TRUCK RECORD FOLDER

A sturdy manila folder has been designed to help you record vital facts on mileage, oil changes, lubrications, tire life, batteries, etc. Tell your local Texaco representative how many you need; or, write direct.

Tune In: Texaco Huntley-Brinkley Report, Mon.-Fri.-NBC-TV

*TEXACO AUTOMOTIVE ENGINEERS

Every month we'll bring you a batch of "sleepers," little angles, so easy to overlook, where big savings in money and time can be made. But month in and month out, your local TAE is the best source of money-saving lubrication ideas. Don't forget that "Lubrication is a major factor in cost control." Texaco Inc., 135 East 42nd Street, New York 17, N. Y., Dept. CCJ-12.

3 MOUNTAIN-YEAR THE WORLD'S WITHOUT A

For years Lasco MOUNTAIN MASTER Brake Lining has been guaranteed for A FULL 3 YEARS! Competitive brake lining manufacturers have been searching their dictionaries for "superlative terms" to describe the "quality" of their product—but regardless of what they "say," no one competitor comes even near MOUNTAIN MASTER'S 3-YEAR GUARANTEE.

WHY? Because they know the "champion" and that they are "licked!" Competitive manufacturers don't dare to meet the challenge—they know their own products won't stand up to MOUNTAIN MASTER and a 3-year guarantee!

Lasco "MOUNTAIN MASTER" SUPER BLOX
THREE YEAR
Certificate of Guarantee

Owner's Name ____ Date ____
City ____ State ____
Make of Car ____ Model ____ Year ____
Speedometer Reading ____
Name Brake Service Station Installing "Mountain Master" Super Blox
Address ____ Telephone ____
Signed: ____
Remarks: ____

(See Reverse Side for Conditions of Guarantee)
Return Duplicate Copy to Your Labor Spring & Tire Branch

Lasco Brake Blox are engineered by an exclusive, patented process and "iron-clad" for amazing strength and durability. Available in drilled and undrilled sets in three different types: VICTORY—high friction, MOUNTAIN MASTER—medium high friction, and LOGGER—medium friction.

NOTICE!
VOLUME BRAKE BLOCK DISTRIBUTORS
special money-making deal
write us today

MASTER *(Iron-Clad)*

GUARANTEE

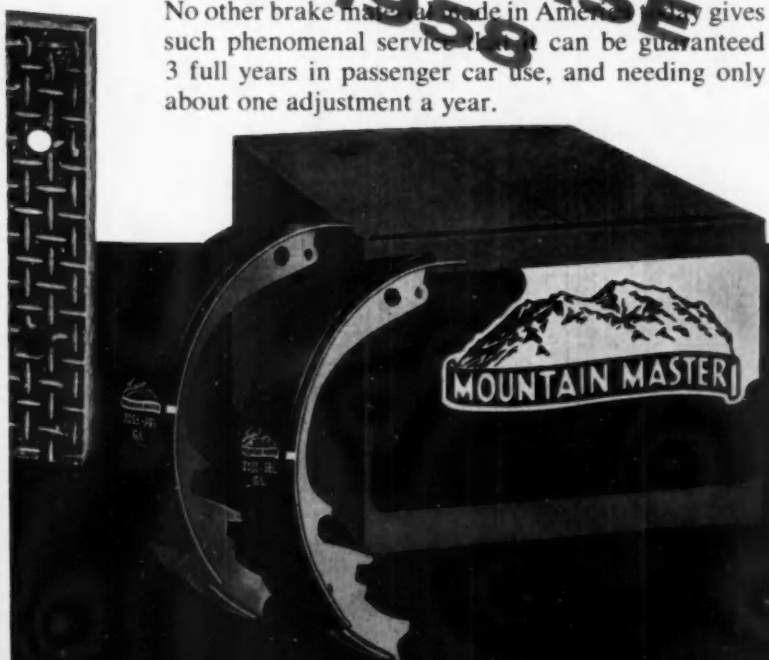
CHAMPION CHALLENGER

A CHALLENGING FACT—Many new car dealers have installed Lasco MOUNTAIN MASTER Brake Lining before delivering new cars to customers! They, like thousands of owners, are LEARNING FAST that there is no brake lining in the world like MOUNTAIN MASTER! Lasco MOUNTAIN MASTER is the favorite of race car drivers, transportation companies, rough, grueling logging operators and car dealers all over America to lick tough brake jobs.

76% SALES INCREASE IN 1958

WE INVITE CHALLENGE TO THESE STATEMENTS!

No other brake material made in America today gives such phenomenal service that it can be guaranteed 3 full years in passenger car use, and needing only about one adjustment a year.



ORDER NOW...

LASCO

BRAKE PRODUCTS CORP., LTD.

Subsidiary of

LAHER SPRING AND TIRE CORPORATION

OAKLAND 2615 MAGNOLIA ST. • MEMPHIS 300 MADISON AVE.
ST. LOUIS 2131 Locust St. • PITTSBURGH 5515 Penn Ave. • KANSAS CITY 1515 McGee St.
LOS ANGELES 807 8th St. • FORT WORTH 910 Florence St. • SAN FRANCISCO 58 12th St.
SALT LAKE CITY 541 So. State St. • SEATTLE 714 E. Pike St. • PORTLAND N.W. 15th & Davis
SPOKANE 1319 W. Second Ave. • SACRAMENTO 1217 16th St.

SHOE EXCHANGE: Lasco passenger car shoe exchanges are available in bonded or riveted sets using same supreme quality lining in two grades; MOUNTAIN MASTER and Lasco BLUE LABEL. Both made by Lasco—when you order LASCO you get LASCO—no substitutes. TRY IT—DEMAND IT—it will make you friends and money!

QUALITY · SERVICE · SINCE 1908

1959 New Truck Registrations

STATE		Brockway	Chevrolet	Diamond T	Dodge	Ford	G.M.C.	International	Mack	Studebaker	White	Willys Jeep	Willys Truck	All Others	Total
Alabama	Aug.		934	2	66	579	149	142	15	4	24	6	13	64	1,998
	9 Mos.	1	5,263	39	540	3,555	1,106	1,091	275	37	158	37	72	437	12,611
Alaska	Aug.		15		2	22	19	11		2			1	8	80
	9 Mos.		161		37	177	133	87	5	25	1	3	23	75	727
Arizona	Aug.		350	1	66	305	73	70	4	11	13	7	20	50	979
	9 Mos.		3,186	2	542	2,144	646	499	27	58	69	86	148	283	7,692
Arkansas	Aug.		825	3	85	615	160	199	16	13	6	5		31	1,958
	9 Mos.		4,828	22	517	3,309	793	965	45	52	51	33	33	120	10,768
California	Aug.		3,489	6	633	3,186	593	676	21	59	111	132	103	592	9,601
	9 Mos.	1	28,010	91	3,888	22,802	4,213	4,380	173	426	608	670	718	4,473	70,453
Colorado	Aug.		508		95	403	100	114	5	8	15	71	69	30	1,418
	9 Mos.		4,025	7	778	3,176	868	933	76	100	74	383	464	219	11,103
Connecticut	Aug.	3	125	1	24	141	61	89	12	3	36	11	32	50	588
	9 Mos.	17	1,215	6	282	1,066	385	669	116	27	163	88	200	383	4,617
Delaware	Aug.		62		13	42	34	36	9	2	1	1	5	16	221
	9 Mos.	13	543	26	133	305	187	268	276	8	32	14	30	80	1,915
District of Columbia	Aug.		75		11	94	12	20	5		5		3	19	244
	9 Mos.	2	525	6	104	856	140	145	36	2	20	5	24	172	1,735
Florida	Aug.		745	8	98	964	250	250	43	15	22	35	68	213	2,731
	9 Mos.	2	6,408	132	840	8,314	1,734	1,837	372	113	571	232	564	1,770	20,889
Georgia	Aug.		790	3	92	826	207	287	27	10	38	7	10	73	2,372
	9 Mos.		5,611	25	687	4,779	1,353	1,333	256	84	230	61	78	580	15,077
Idaho	Aug.		177	1	57	172	81	102	10	7	2	8	35	22	674
	9 Mos.		1,749	2	414	1,385	487	730	45	71	29	66	213	137	5,328
Illinois	Aug.		945	21	200	981	248	625	43	23	47	20	56	163	3,371
	9 Mos.		8,889	171	1,454	7,921	1,926	4,361	386	182	544	202	431	1,293	27,762
Indiana	Aug.		868	15	123	864	321	395	26	48	73	14	23	89	2,859
	9 Mos.		6,023	109	1,048	5,300	1,513	2,611	389	372	390	83	210	641	18,689
Iowa	Aug.		443	12	91	482	93	235	12	6	10	6	17	35	1,442
	9 Mos.		4,434	111	661	4,093	743	2,062	86	104	103	46	144	343	12,930
Kansas	Aug.		550	3	57	537	107	175	8	13	7	2	15	29	1,503
	9 Mos.		4,886	30	607	4,039	868	1,306	51	93	77	29	109	187	12,282
Kentucky	Aug.		546	1	32	496	153	146	5	6	9	5	14	35	1,447
	9 Mos.		3,860	11	375	2,978	944	972	82	48	68	74	104	236	9,772
Louisiana	Aug.		843	3	74	756	147	144	16	4	14	7	3	80	2,093
	9 Mos.	1	5,791	16	484	4,570	1,003	1,232	121	49	88	61	70	470	13,958
Maine	Aug.		88		8	119	25	72	4	5	2	14	18	22	377
	9 Mos.	13	921	12	150	900	243	595	46	31	27	110	183	196	3,429
Maryland	Aug.	5	351		69	235	54	134	16	5	19	5	30	32	955
	9 Mos.	40	2,387	19	502	2,021	596	1,090	175	21	177	75	161	384	7,648
Massachusetts	Aug.	1	261	4	64	279	127	133	28	3	13	11	54	82	1,060
	9 Mos.	22	1,640	16	622	1,980	623	884	151	26	174	83	324	561	7,106
Michigan	Aug.		1,009	22	163	1,195	329	261	36	10	38	37	73	143	3,316
	9 Mos.		8,154	96	1,822	8,071	2,185	1,787	318	121	383	275	509	1,036	24,739
Minnesota	Aug.		322	11	75	437	89	220	17	12	14	2	11	28	1,238
	9 Mos.		4,122	38	830	4,256	779	1,654	96	110	91	34	123	390	12,523
Mississippi	Aug.		438	1	43	483	116	165	8	9	3	4	9	27	1,306
	9 Mos.		3,642	6	411	2,843	906	985	67	57	20	54	41	231	9,285
Missouri	Aug.		898	7	147	753	189	258	10	14	11	10	21	69	2,387
	9 Mos.		7,601	55	884	5,520	1,781	2,146	155	101	149	71	141	445	19,049
Montana	Aug.		204	1	37	235	46	113	5	3	5	6	31	19	705
	9 Mos.		1,721	4	445	1,650	405	771	55	78	47	87	309	173	5,745
Nebraska	Aug.		339	17	39	319	62	143	12	3	4	7	11	15	971
	9 Mos.		3,339	79	406	2,832	656	1,229	39	39	125	59	105	281	9,169
Nevada	Aug.		80		31	62	39	28		5	1	6	9	43	304
	9 Mos.		594	1	115	486	183	173	2	33	8	42	46	283	1,966
New Hampshire	Aug.		47	2	24	63	5	26	1	3	1	9	14	27	222
	9 Mos.	1	582	2	198	482	125	285	82	20	9	62	166	201	2,215
New Jersey	Aug.	42	443	18	127	409	198	235	82	6	50	19	59	140	1,828
	9 Mos.	208	3,917	118	960	3,975	1,385	1,901	562	44	422	158	386	985	15,021
New Mexico	Aug.		387		45	286	91	58	2	7	5	12	21	23	937
	9 Mos.		2,841	10	410	1,678	593	400	32	53	42	63	152	133	6,407
New York	Aug.	41	949	15	237	1,095	368	667	120	13	169	60	133	294	4,161
	9 Mos.	261	7,719	67	2,045	7,289	2,143	4,803	735	102	1,247	417	993	2,478	30,299
North Carolina	Aug.		1,212	1	77	1,058	222	157	14	16	30	18	22	65	2,892
	9 Mos.		6,230	46	734	6,012	1,376	1,321	417	111	357	154	131	491	17,380
North Dakota	Aug.		144	1	34	161	30	111		4			3	8	496
	9 Mos.		1,327	16	315	1,189	265	685	5	30	2	14	38	59	3,945
Ohio	Aug.	1	741	11	170	954	298	424	49	16	74	29	100	215	3,062
	9 Mos.	20	7,374	82	1,725	7,532	1,962	3,122	480	195	638	228	590	1,330	25,498
Oklahoma	Aug.		769		65	658	119	214	2	6	10	5	8	20	1,878
	9 Mos.		6,582	8	569	4,815	915	1,397	105	61	93	44	55	160	14,804
Oregon	Aug.		353	17	65	406	111	178	17	25	18		80	50	1,320
	9 Mos.		3,223	63	530	2,807	698	1,014	152	140	312		496	586	10,023
Pennsylvania	Aug.	12	1,121	18	315	888	279	561	90	33	63	79	138	153	3,750
	9 Mos.	128	7,635	124	2,052	6,479	1,856	3,959	1,075	192	890	484	1,026	1,160	27,060
Rhode Island	Aug.		91		66	45	9	26	3	1	8	4	5	57	315
	9 Mos.		485	1	449	477	96	295	50	7	34	14	27	256	2,191
South Carolina	Aug.		459		47	426	88	74	2	6	3	4	7	39	1,155
	9 Mos.		2,922	7	513	2,360	516	559	95	44	62	40	66	271	7,455
South Dakota	Aug.		221	2	40	236	40	115	1	13	3	3	15	18	707
	9 Mos.		1,571	11	313	1,411	361	847	4	56	26	40	94	92	4,826
Tennessee	Aug.		545	9	83	521	154	165	26	5	39	6	9	50	1,612
	9 Mos.		4,753	26	754	3,696	1,179	1,211	516	56	133	78	63	339	12,806
Texas	Aug.		3,623	12	349	2,864	539	810	71	41	152	76	51	130	8,718
	9 Mos.		25,014	46	2,555	17,115	3,523	4,812	455	317	702	361	303	764	55,967
Utah	Aug.		297	2	65	167	49	69	3	1	17	9	15	29	723
	9 Mos.		1,665	10	461	1,255	441	503	30	41	70	48	115	151	4,790
Vermont	Aug.		50		12	44	16	44	1	3	5	14	17	17	223
	9 Mos.	7	485	3	111	487	182	253	12	15	20	56	145	146	1,952
Virginia	Aug.		540	3	114	617	97	161	15	7	28	18	34	79	1,713
	9 Mos.	1	4,081	15	886	3,589	812	1,274	220	116	129	119	244	528	12,014
Washington	Aug.		485	3	111	490	151	150	15	12	7	15	27	62	1,528
	9 Mos.		3,665	16	757	3,313	1,138	1,216	97	83	80	71	249	695	11,380
West Virginia	Aug.		199	4	60	205	70	67	36	7	12	28	48	31	764
	9 Mos.		1,758	28	436	1,474	644	454	91	65	102	167	326	178	5,723
Wisconsin	Aug.		380	4	77	430	88	255	16	8	16	27	24	77	1,380
	9 Mos.		3,680	33	824	3,384	841	2,117	146	93	175	145	264	522	12,024
Wyoming	Aug.		167		21	166	65	65		3	6	11	32	8	544
	9 Mos.		1,276	6	219	1,044	356	396	21	25	19	62	224	70	3,720
Total	August, 1959	105	29,482	265	4,699	27,793	6,989	9,875	961	541	1,259	882	1,615	3,871	88,137
Total	August, 1958	70	23,706	261	2,959	19,450	5,258	7,429	686	312	907	676	1,006	3,045	64,965
Total	9 Months, 1959	738	228,313	1,875	37,214	190,890	48,830	69,621	9,305	4,334	10,241	5,898	11,712	27,456	646,427
Total	9 Months, 1958	540	169,760	1,937	25,186	135,225	35,727	58,062	7,701	2,979	7,848	4,076	8,207	26,143	477,411

Based on data from R. L. Polk & Co.

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In bowling CONTROL is important!

and in trucks...

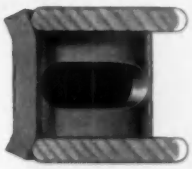
OIL CONTROL is important!

Sealed Power KromeX piston ring sets with stainless steel oil rings control oil!

In just two short years *the* stainless steel oil ring has won acceptance with mechanics and car manufacturers.

New design . . . new material . . . fully tested! These rings come in fast, control oil even under high vacuum conditions or in tapered and out-of-round bores.

JUST ONE OF THE REASONS WHY



They seat instantly. Here you see cross-section views of both the top compression ring and the stainless steel oil ring. Both the face of the compression ring and the side rails of the oil ring are chrome-plated for long life.

The chrome-facing on the top compression ring is factory-lapped for quick seating. This lapping process is the equivalent of several hundreds of miles of actual engine operation.

The steel side rails of the oil ring are heavily chromed to reduce friction and impart long, efficient life. A special factory applied finish assures immediate seating. The chrome facing has microscopic pockets which hold oil and forms a perfect seal with the bore.

BEST FOR RE-RING!

BEST FOR RE-BORE!

SEALED POWER CORPORATION • MUSKEGON, MICHIGAN

Sealed Power KromeX Ring Sets

"...Now We Get 1/3 More

Associated Transport's Harold Johnson and Edward Gladu, Bridgeport Terminal Maintenance Manager, discuss the remarkable protection provided by Mobilgrease Special (with Moly).

Mobil

Mileage Between Lube Jobs!"

"And," Harold Johnson of Associated Transport's Maintenance Department reports, "with fewer wheel bearing replacements . . . less wear at other lubrication points since we started using Mobilgrease Special (with Moly)!"

NEW equipment tests conducted by Associated Transport, in cooperation with Mobil, clearly showed, according to Mr. Johnson, that the time between lubrication periods could be extended "⅓ as much again" with Mobilgrease Special (with Moly).

Two types of equipment were used in the tests: One group included 23 factory-new tractors in which the grease was flushed out and replaced with Mobilgrease Special (with Moly). These trucks were tested on runs for a year and a half.

During the same 18-month period, ten over-the-highway trailers, completely refitted with new parts greased exclusively with Mobilgrease Special (with Moly), were put into service on long hauls. As a result of these tests, the entire Associated Transport system has standardized on Moly type grease.

In the extensive area where Mobil services this account, Mobilgrease Special (with Moly) has replaced the two grades of greases previously used for chassis, water pumps and wheel bearings.

The Associated Transport tests, run under actual road and fleet conditions, are conclusive proof of maximum protection against wear provided by Mobilgrease Special (with Moly)!

Johnson and mechanic Jose Rivera check reduction of wear on wheel bearing after completion of tests using Mobilgrease Special (with Moly).

Correct Lubrication

Another reason you're Miles Ahead with Mobil

Fleetman's LIBRARY

REVIEWING THE BEST IN CURRENT PUBLICATIONS ON MAINTENANCE, EQUIPMENT AND SAFETY OF INTEREST TO TRUCK, BUS AND CONSTRUCTION FLEET OPERATORS

Aluminum Trailers Up Profits

"On The Highroad to Profits" is the title of a new booklet from the Kaiser Aluminum Co. In it are trailer cost figures taken from fleet records. All types and sizes of aluminum trailer bodies are shown as well as several truck bodies. Figures point up savings in operating and maintenance costs.

For your free copy of "On The Highroad to Profits," contact your local Kaiser Aluminum sales office or write to Kaiser Aluminum & Chemical Sales, Inc., 1924 Broadway, Oakland 12, Cal.

New Soldering Manual Offered

The American Welding Society is offering the first manual on soldering ever published. The 176-page book covers all phases of soldering. It shows when to solder, what can be soldered and how to do it. Types of solders and fluxes are given also.

You can get a copy by writing the American Welding Society, Dept. T, 33 W. 39th St., New York 18, N. Y. Price is $5. a copy.

Camshaft Regrinding Pays Off

The "How and Why" of camshaft regrinding is explained in an 8-page technical report offered by Van Norman Machine Co. It shows cost and technical factors you should consider when rebuilding an engine. A table gives comparative costs of most new camshafts with the price of regrinding the old ones. Booklet also shows how a cam's lift is held constant when the cam is reground. Photos show Van Norman grinders with close-ups of key parts in operation.

For your free copy, write Mr. Selby F. Greer, Van Norman Machine Co., Springfield 7, Mass.

How to Choose Truck Decals

There are several types of decals suitable for marking trucks. Some types are better than others depending on the size and type of application. If you are considering decal signs for your fleet, get a free copy of "Let's Talk Decals." It's an informative booklet prepared by the Certified Decal Manufacturers of the Screen Process Printing Assn., International, which is the trade group of decal producers.

Write the Screen Process Printing Association, International, 549 W. Randolph St., Chicago 6, Ill. Ask for a copy of "Let's Talk Decals."

Data Booklet Boosts Tire Life

The Gates Rubber Co. has published a "Truck Tire Service and Engineering Data Book" to help you boost tire life through proper PM and by choosing the proper tire for the job. There's also a General Information section which will help you in figuring weights, tire matching, clearances for tire chains, etc.

You can get a free copy of the Data Book by writing The Gates Rubber Co., Truck Tire Sales Div., 999 S. Broadway, Denver 17, Colo.

Booklet Gives Tune-Up Specs

Need the latest ignition tune-up specifications? A new eight-page booklet contains all the specs for truck and tractor engines as well as small engines. Latest 1959 data is included. The booklet is free.

Write Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City 1, N. Y.

NFPA Issues New Fire Codes

The National Fire Protection Assn. has issued several new fire codes of interest to fleetmen. They're offered as a suggested basis for fire prevention and safety without causing undue inconvenience and expense. Items of special interest are in Volume VI — Transportation (800 pages). Standards which were revised in 1959 include: Transit operations; Tank vehicles for flammable liquids; and Motor freight terminals.

Other sections of particular interest to fleetmen include: Government transportation regulations, and Truck fire protection.

Write the National Fire Protection Assn. 60 Batterymarch St., Boston 10, Mass. Ask for Vol. VI—Transportation. Price is $7.

New Manual Explains Arc Welding

The American Welding Society has published an Arc Welding Training Manual. Contents include welding processes and recommended safety practices, the metal-arc process, arc welding equipment, identification of metals, and metals and their structure. Text is well illustrated and shows how various welding steps are performed. Numerous exercises are given for welding practice.

Copies of the manual are available from the American Welding Society, 33 W. 39th St., New York 18, N. Y. Price is $3 each, postpaid.

Don't miss listings of current literature from fleet suppliers in the New Product section of this issue

THERE'S NO BETTER BRAKE FLUID FOR ANY CAR THAN THE ONE THAT GOES INTO ALL NEW GM CARS!

Again, for 1960 as for the past eleven years, Delco Super 11 Heavy Duty brake fluid is original equipment on all new General Motors cars! With this ready-made market, it surely pays to stock Delco Super 11 for replacement use.

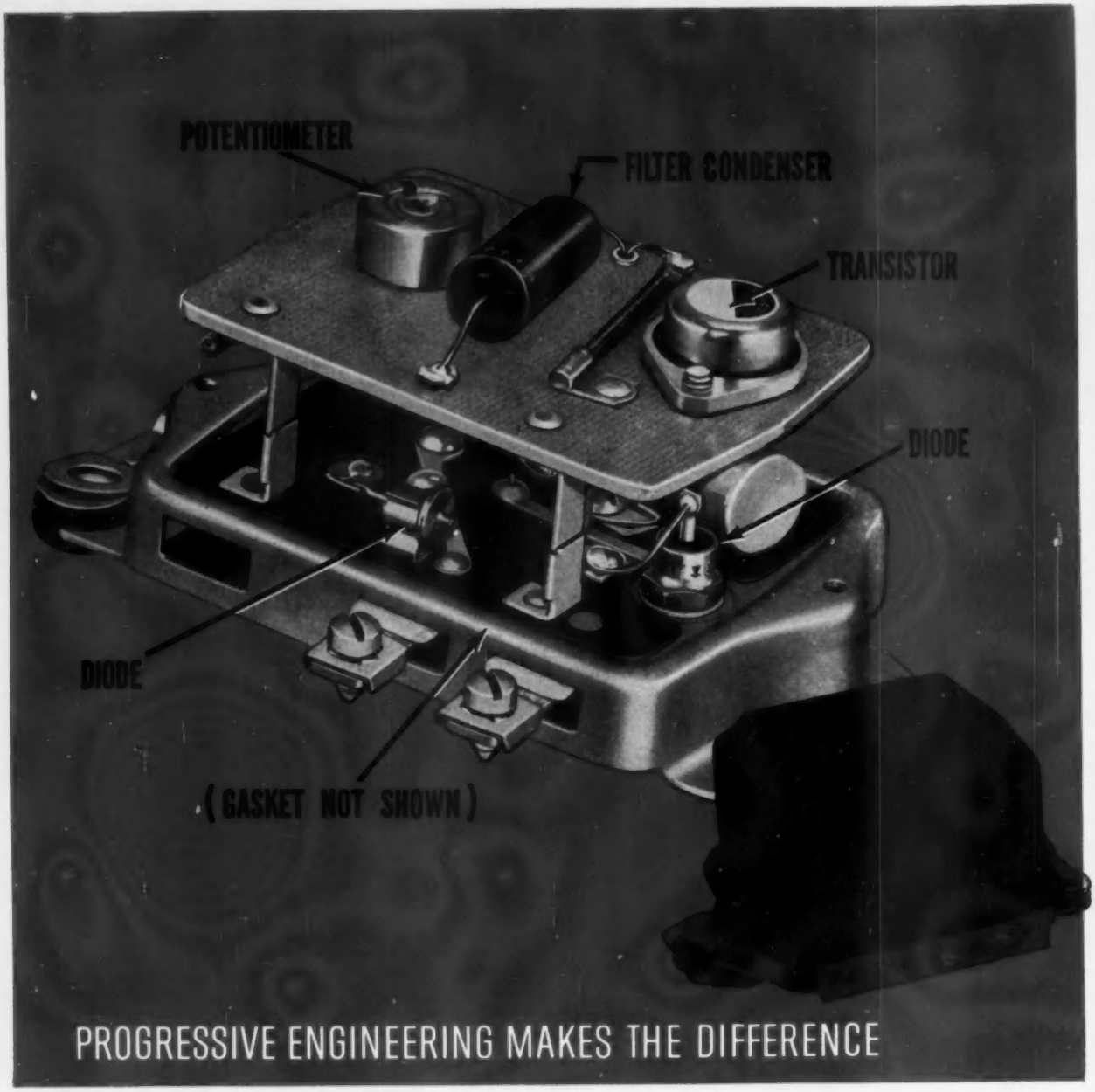
Your other customers—both passenger and commercial—will want it, too, because it is the brake fluid that's specially designed to give the extra braking protection needed for today's high speeds and heavy traffic conditions.

Improved with HTD, Delco Super 11 Extra Heavy Duty brake fluid is readily available everywhere through the United Motors System and General Motors car and truck dealers.

DELCO SUPER 11 EXTRA HEAVY DUTY • Is compatible with all rubber and metal parts! • Is chemically inert and physically stable! • **GIVES MORE SAFE STOPS FOR CUSTOMERS, MORE SALES FOR YOU!**

Moraine Products

Division of General Motors, Dayton, Ohio



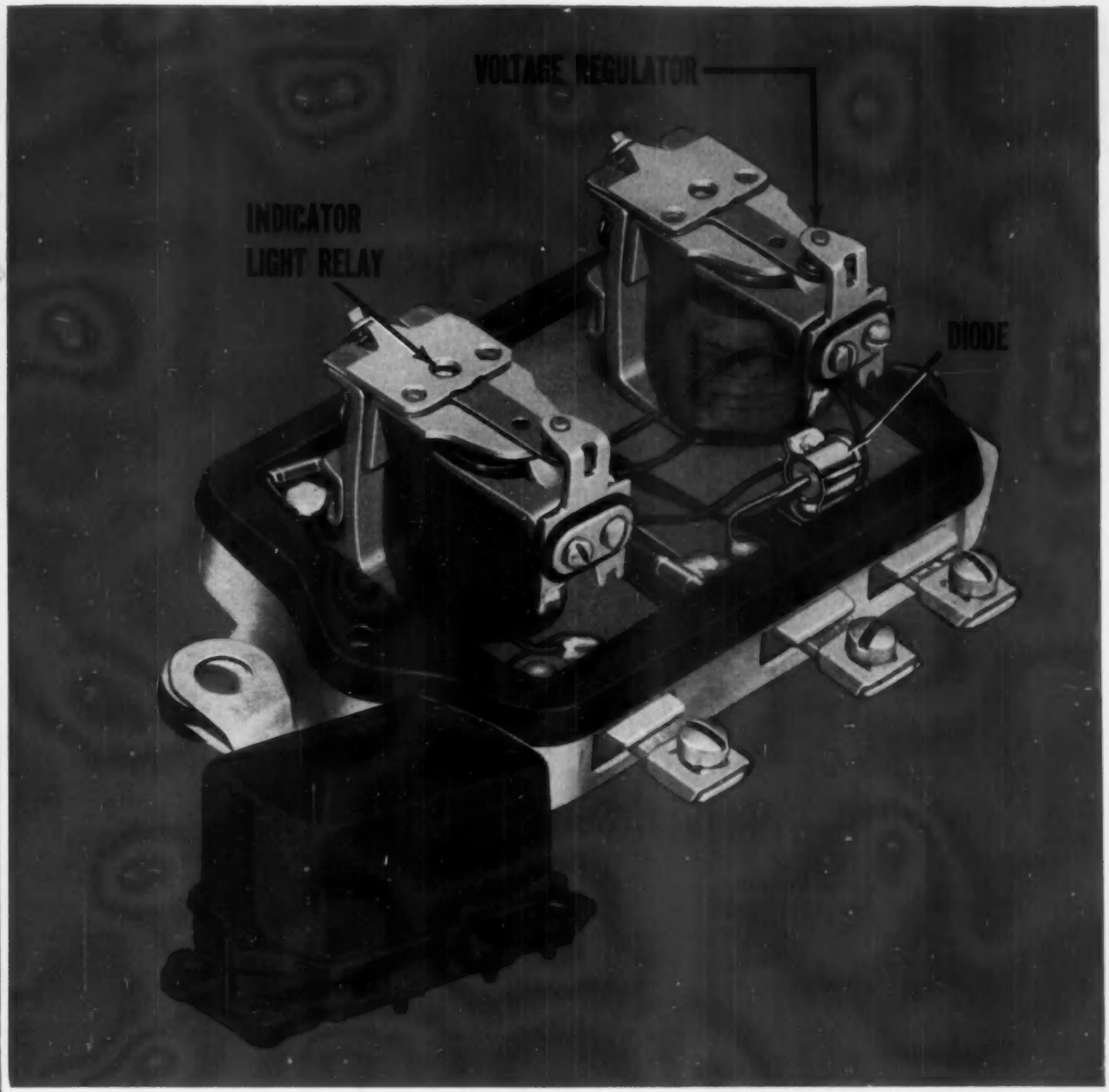
ONLY DELCO-REMY OFFERS FULL-TRANSISTOR

Designed for use with DELCO-REMY'S new self-rectifying a.c. generators

Now you can choose between *two* modern new Delco-Remy regulators—the most accurate available today. One is a full-transistor model, the other transistorized.

The FULL-TRANSISTOR REGULATOR has no moving parts and offers the ultimate in accurate electrical performance, durability and reliability. It is composed entirely of transistors, diodes, condensers and resistors, permitting higher field current for better generator performance. Constant voltage control is unaffected by temperature changes, vibration, or mounting position. A simplified external adjusting feature permits easy voltage setting for varying operating conditions. And this full-transistor regulator requires no periodic servicing.

The TRANSISTORIZED REGULATOR contains a single transistor and diode working in conjunction with a vibrating-type voltage sensing unit. The transistorized circuit



AND TRANSISTORIZED VOLTAGE REGULATORS

permits high field current for improved generator performance with low non-inductive current through the contacts for greatly extended contact life. Models are available for circuits containing either ammeters or indicator lights. All units are temperature compensated to better match battery voltage requirements.

Both the full-transistor and the transistorized models have the same mounting dimensions as standard regulators.

Whichever model you choose for your new vehicles or for replacement on present ones, you can be sure of reduced servicing and extended battery life. Available from your car or truck dealer or through the United Motors System.

FROM THE HIGHWAY TO THE STARS

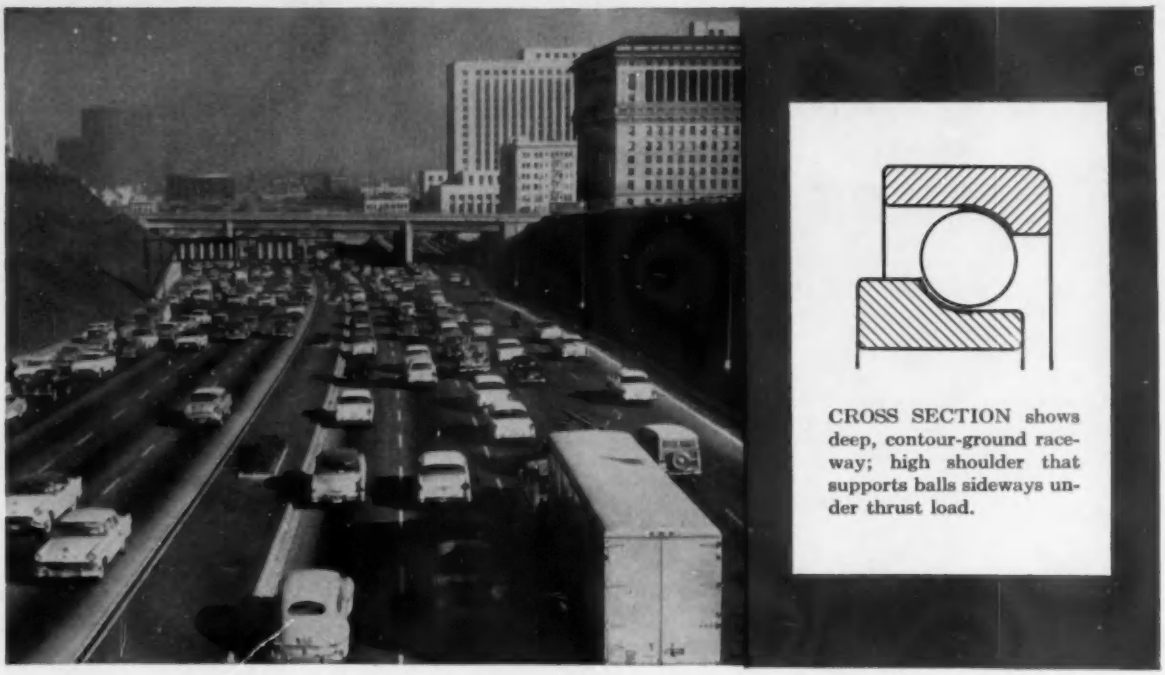
Delco-Remy

ELECTRICAL SYSTEMS

GM GENERAL MOTORS

DELCO-REMY • DIVISION OF GENERAL MOTORS • ANDERSON, INDIANA

Better products, *faster*, from your BCA bearing jobber:



BCA cuts a deep "roadway", leaves a high shoulder so wheel bearings stand up on the curves

Uninterrupted raceway and extra-high shoulder let this BCA bearing take sideways thrust of 150% of direct load

Wheel bearings take a beating! They have to carry heavy direct loads on straightaways . . . take powerful sideways thrust loads on the curves. That's where BCA's longtime automotive bearing experience pays off!

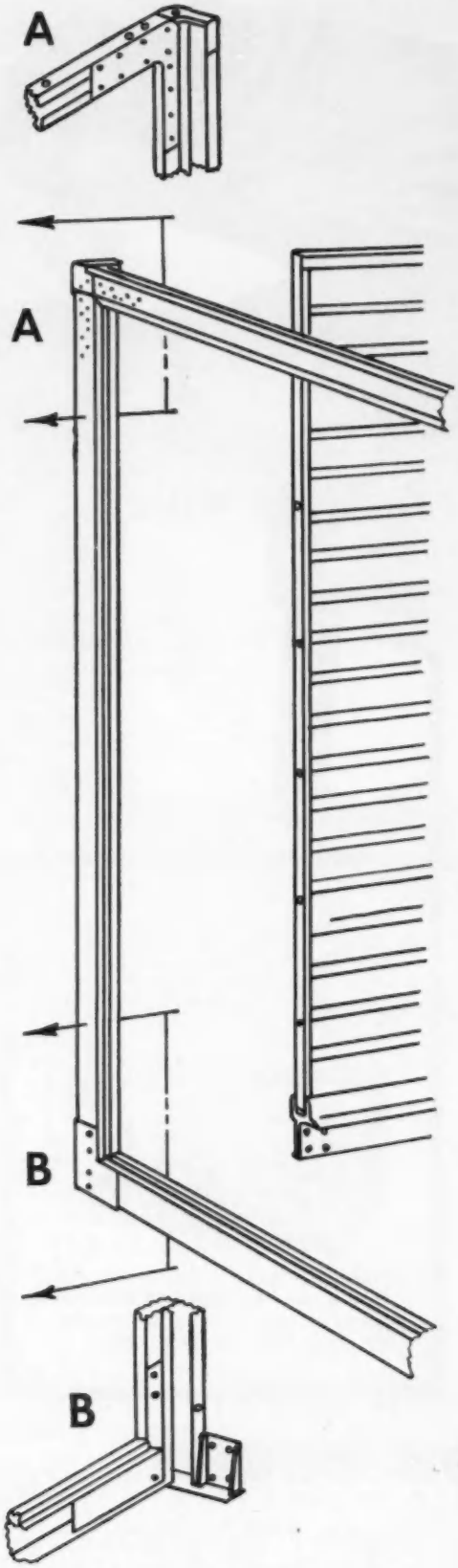
Extra-high shoulder on one side of outer ring lets BCA wheel bearing take high thrust loads in one direction—up to 150% of direct load rating. Low shoulder on other side permits loading with maximum number of balls . . . gives this bearing high direct-load capacity, too.

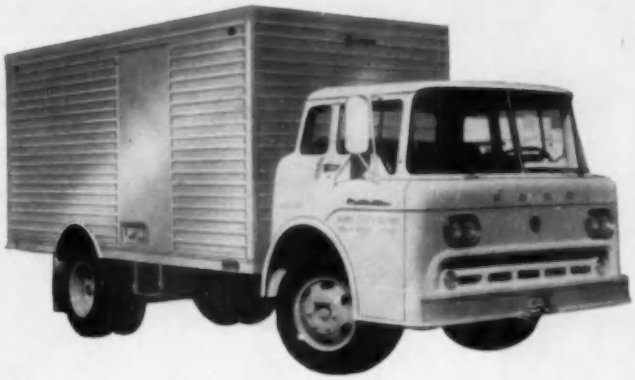
In wheel, clutch, transmission, differential or generator, BCA ball bearings give long, trouble-free service . . . install easily to save *you* work. When you need replacements, call your BCA jobber for fastest service!

BCA BALL BEARINGS

FEDERAL-MOGUL SERVICE

DIVISION OF FEDERAL-MOGUL-BOWER BEARINGS, INC. • DETROIT 13, MICHIGAN





More Built-In Strength
For Rugged Service

New Brown Series "L" Cargo Van Bodies

The new Series "L" Cargo Vans are designed to give you maximum capacity and strength, minimum weight. Internal gussets and steel corner castings combine to prevent wracking, maintain door alignment and protect the body from impact and dock damage. Vertical stiffeners are spaced on 16" centers, giving added sidewall strength and rigidity. Riveted, all-aluminum doors have wide-contact sponge rubber seals to keep out dirt and moisture.

Four body types—corrugated, smooth-panel and exterior-post—or combination smooth and corrugated—enable you to pick the van body which exactly fits your needs. All four feature cold riveted, aircraft quality construction of new, stronger aluminum alloys. All panels are standardized for easy replacement in case of bad accidents.

Brown Cargo Vans give national fleet owners important nationwide design and construction continuity, because they are sold and serviced by more than a hundred reputable body builders throughout the United States. Get complete details and prices from your Brown Cargo Van Dealer today or write for free folder.

Brown is a registered trademark of

CLARK EQUIPMENT COMPANY
BROWN TRAILER DIVISION
Box 410 Michigan City, Indiana

See those timing marks better with new extra-bright Snap-on® TIMING LIGHT

MT-215 Timing Light
Yours on easy payments

This brand new SNAP-ON 6-12-volt timing light gives you the things a mechanic needs most on timing work:

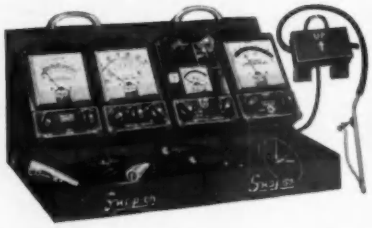
Extra-bright light
Sharp, concentrated light pattern
Same high brightness for 6- or 12-volt systems
Same high brightness regardless of engine speed
No double-flashing

Streamlined case is made from tough, high-impact plastic that can really take rough service. It resists breakage, is not harmed by grease or solvents, and it's shockproof.

Comfortable pistol-grip handle is located to give perfect balance for easy handling. Handle has on-off trigger button. Timing light leads are exceptionally flexible and run through a rubber strain reliever that protects the wire from cracking or breakage. Spark plug lead is 4½ feet long — two battery leads are each 5 feet long.

This new, extra-bright timing light gives you greater speed and accuracy — will pay for itself — and more — for that reason. It was designed and built with the mechanic in mind. Order one the next time your SNAP-ON man calls.

MT-4000A Tune-Up Set
Improve work quality, boost income with new SNAP-ON tune-up set. Includes exhaust gas analyzer — Tach-dwell meter — Generator-regulator meter — Ignition analyzer.



These four SNAP-ON testing sets give you a low-cost packaged unit for diagnosing engine and electrical troubles accurately, and in a hurry.

Snap-on Tools — THE CHOICE OF BETTER MECHANICS

SNAP-ON TOOLS CORPORATION
8026-K 28th Avenue ○ Kenosha, Wisconsin

Picture of a needless expense—filmed to help management prevent it

The film clip is taken from a Texaco movie about grease, called "Shear Magic." It shows a grease-lubricated roller bearing that has literally been eaten up by rust because improper lubricant was used.

To help you take steps to prevent this same occurrence "Shear Magic" presents the latest advances in greases and grease-testing methods.

You will see how *only* the right greases protect against heat, water, cold, dust, shock, and other conditions. You will find out about new greases, their components and capabilities.

You will learn how the right grease schedule—one planned exactly for your operation—can help you reduce maintenance and replacement costs and substantially improve your company's profit picture.

There is no "hard sell" in "Shear Magic," only informative talk. Texaco will be glad to arrange for a showing of the 25-minute sound film right in your plant. To start the projector rolling, just mail the coupon.

TEXACO

Texaco Inc.
Room 2006, Dept. CCJ-G-21
135 East 42nd Street
New York 17, N. Y.

Please send me information about a free showing of "Shear Magic" to my organization.

Name_____

Company_____

Address_____

City_____ State_____

LUBRICATION IS A MAJOR FACTOR IN COST CONTROL

now you can save like '60 with America's favorite fleet car!

Here's the car that promises you the year's handsomest fleet savings. And backing up that promise is the kind of dollar-saving dependability that has made Chevrolet America's top fleet seller year after year. One look tells you this new '60 Chevy is styled to say the things you want a car to say about your business—and you'll find Chevrolet's low prices say them in a businesslike way. All Impalas and Bel Airs with V8 engines are lower in price, as are automatic transmissions and many other popular options. Furthermore, Biscaynes now include as standard equipment many conveniences formerly optional at extra cost. Figure with this the top trade-in Chevrolet traditionally commands and you'll find—as the largest number of fleet buyers have found—you just can't do better by your fleet dollars!*

Your dealer's got all the facts on these '60 Chevrolet features, made to order for your fleet needs:

NEW ECONOMY V8—Gets up to 10% more miles on a gallon of regular with new economy-contoured camshaft and other gas-saving refinements. Yet gives more torque at speeds most fleet cars are driven.

HI-THRIFT 6—'60 version of the engine that got 22.38 miles on a gallon of regular in most recent Mobilgas Economy Run—more than any other full-size car.

HYDRAULIC VALVE LIFTERS—Standard on all of Chevy's popular engines; give oil-hushed performance, eliminate expense of tappet adjustments.

LONGER LASTING TIRES—Improved tread material lengthens life, gives greater traction, reduces tire squeal.

QUICKER STOPPING BRAKES—Jumbo-sized Safety-Master brakes with durable bonded linings, larger front-wheel cylinders for '60 deliver surer stops with less pedal pressure.

EASIER-TO-LOAD LUGGAGE COMPARTMENT—There's 30 cu. ft. of space made to order for sales samples and other bulky items. And it's easier to get things in and out, thanks to wider deck lid opening and lower loading height.... Chevrolet Division of General Motors, Detroit 2, Mich.

*Latest annual registration count by R. L. Polk & Co. shows 45.12% of sales to fleet buyers of 20 or more units were Chevrolets—nearly half again as many as the second-choice fleet car.

CHEVROLET

The car America likes to do business with!

Bel Air 4-Door Sedan

"3500" Jenny® keeps refuse trucks white, sanitary and odorless

Says a Topeka refuse truck cleaner, "The hardest trucks in the world to keep clean and sweet. Just try getting all that filth off with soap and water!"

Using a Series "3500" Hypressure Jenny, though, Topeka's 29 sanitary trucks are kept spotlessly clean in just two sessions a week! Health officers point out that the sterilizing effect of Jenny cleaning helps keep odors at a minimum; forestalls decomposition and fermentation; neutralizes germ breeding areas.

And maintenance people point out longer wear, less repair, more efficient operation as extra bonuses from using their "3500."

This sort of performance has been repeatedly reported by fleet owners—trucks, cars, construction equipment. If you are not yet familiar with the advantages of Hypressure Jenny, see a demonstration on your own equipment. Send coupon today.

☐ Please arrange a demonstration of your Series "3500" Jenny.

☐ Please send me additional information.

Name ..... Title .....

Company .....

Address .....

City ..... Zone ..... State 90

hv

HOMESTEAD VALVE MANUFACTURING COMPANY
Hypressure Jenny Division, Coraopolis, Pa.
(In Canada: Hypressure Jenny Sales & Service, Ltd.
517 Jarvis Street, Toronto 5, Ont. C. S. A. Approved).

To guarantee optimum

J-M Four-Star Brake Blocks are identified by these colors:

Style No. 2100

Colored green to denote low friction range

Style No. 2500

Colored red to denote high friction range

Style No. 2300

Colored yellow to denote medium friction range

JOHNS-MANVILLE JM PRODUCTS

JOHNS-MANVILLE

brake performance, use . . .

J-M "Color-Coded" Brake Blocks

New J-M Brake Advisory Service promises Fleet Operators maximum mileage at minimum cost

Here's a packaged maintenance program you can adopt immediately to help cut costs and get better brake performance at the same time.

It's the Johns-Manville Brake Advisory Service . . . a plan especially designed for Fleet operators. It embraces a study of your operation by field sales engineers, a recommendation of materials carefully selected on the basis of analysis of the problem, and, *foolproof* schematic color sketches to guide your mechanics in following the specific recommendations you will receive for each vehicle.

How the plan works

Here is the easy way to make sure that the Brake Blocks you use are *correct* for every vehicle in your fleet:

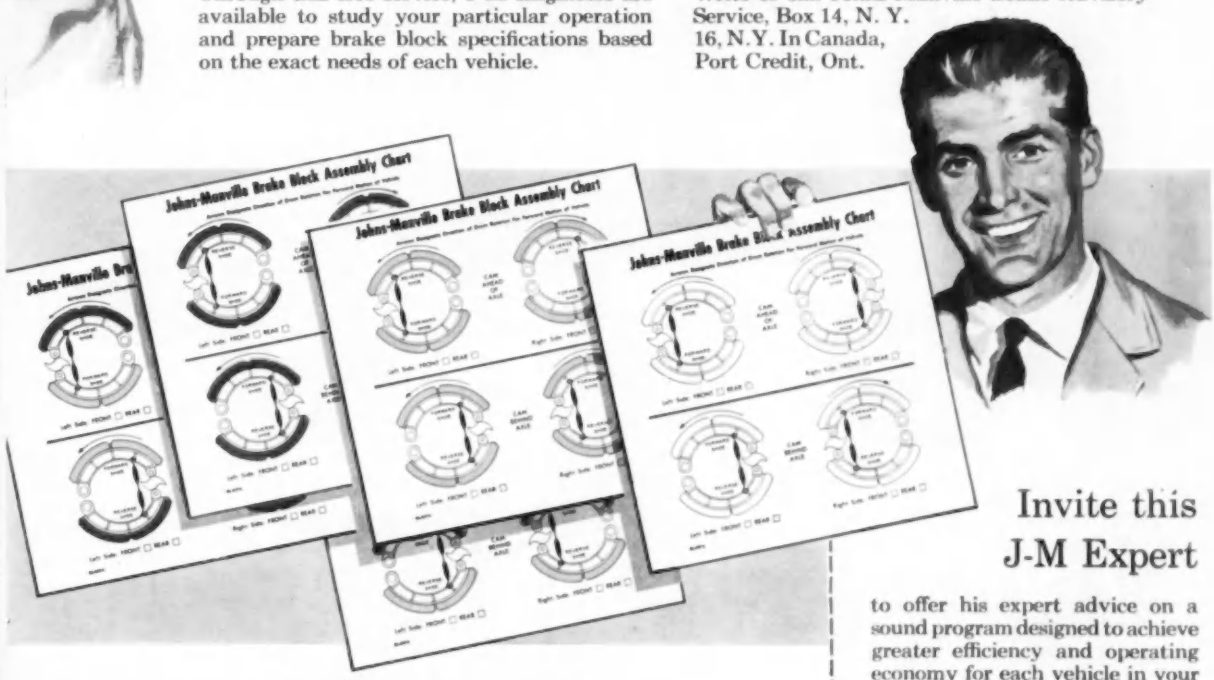
Just call on the J-M Advisory Service. Through this free service, J-M Engineers are available to study your particular operation and prepare brake block specifications based on the exact needs of each vehicle.

In this way you'll get quality blocks that deliver consistently uniform friction *balance* on all four wheels. That means you'll get longest wear, and lowest total costs per mile. In addition, you can expect less damage to drums . . . fewer road calls.

To implement this program

Johns-Manville Brake Blocks are now color-coded for two important reasons. First, to designate medium, high, or low friction level as selected for optimum performance. Second, to provide instant identification by mechanics and thus insure correct application in accordance with J-M's recommendations.

Don't overlook this opportunity to make important reductions in drum wear—minimize braking expense—step up vehicle performance. Write or call Johns-Manville Brake Advisory Service, Box 14, N. Y. 16, N.Y. In Canada, Port Credit, Ont.



Invite this J-M Expert

to offer his expert advice on a sound program designed to achieve greater efficiency and operating economy for each vehicle in your fleet. His services are free. Write Johns-Manville Brake Advisory Service at address above.

BRAKE BLOCKS

EVANS HEATERS ARE RIGHT FOR TRUCKS BECAUSE THEY'RE BUILT FOR TRUCKS!

There's as big a difference between truck and car heaters as there is between truck and car tires. Evans truck heaters are *especially built* to meet heavy-duty requirements, and last longer under the most strenuous truck service. It will pay you to specify Evans truck-built heaters for *your* fleet.

Regional Representatives: Cleveland, Frank A. Chase
Chicago, R. A. Lennox; Detroit, Chas. F. Murray Sales Co.
Allentown, Pa., P. R. Weidner

EVANS
TRUCK AND BUS HEATERS AND VENTILATING SYSTEMS
•
EVANS PRODUCTS COMPANY
Plymouth, Michigan

YOUR FLEET, TOO, CAN BE BOLD, BRIGHT

colorfully marked for work in daylight

For trucks that operate only during the day, "Scotchcal" Film provides an extremely versatile but economical means of marking. There is no limit to the shape, size or color of designs that can be produced. You can achieve special effects that would be possible only at tremendous cost with paint. Yet "Scotchcal" Film goes on fast, stays on for years and remains brightly beautiful with only minimum maintenance. So tough it's used to mark jet aircraft. So flexible and economical it can meet the needs of every fleet operator. Why not see how it can brighten your trucks, yet reduce operating costs. See your FLEET MARK '59 MAN or write Dept. UJ-59 for details today.

REG U S PAT OFF

SCOTCHCAL BRAND **FILM**

The term "Scotchcal" is a registered trademark of 3M Company

MINNESOTA MINING AND MANUFACTURING COMPANY

. . . WHERE RESEARCH IS THE KEY TO TOMORROW

3M

ST. PAUL 6, MINNESOTA

YOUR FLEET, TOO, CAN BE BOLD, BRIGHT

marked to sell day and night

How? With modern fleet markings of "Scotchlite" Sheeting. They're brightly visible 24 hours a day, so they sell your name or product wherever and whenever your trucks roll. Economy and safety are also yours. Initial application is fast and simple—hours of preparation, work and drying are eliminated. You save again because its rugged construction provides long life with minimum maintenance. And these markings are always visible in all weather—added protection for your fleet. See how you can sell better and save more at the same time; get all the facts soon . . . write Dept. UJ-59.

The FLEET MARK '59 MAN *will help you set up a modern marking system for your fleet. See him soon for complete details.*

REG. U.S. PAT. OFF.

SCOTCHLITE
BRAND
REFLECTIVE SHEETING

The term "Scotchlite" is a registered trademark of 3M Company

MINNESOTA MINING AND MANUFACTURING COMPANY

3M COMPANY

. . . WHERE RESEARCH IS THE KEY TO TOMORROW

ST. PAUL 6, MINNESOTA

CCJ's FLEET BUYERS' DIRECTORY 1960

PRODUCT DIRECTORY

It's easy to use. All products are identified by the name most commonly used by fleets. In many cases, major groupings are used. For example, brake adjusters, bleeders, bonders, drums, lining, valves and other brake parts, supplies and components are grouped under the major heading . . .

BRAKES

Also to speed locating the items you are after, everything is fully cross-indexed. Don't forget vehicle makers also offer a full line of parts. Makers with names ALL IN CAPITALS have advertised their products in Commercial Car Journal within the past year. If you can't find what you want, drop us a line. We'll be glad to help. Manufacturers addresses are listed in a new special section beginning on . . .

page 199

ACCOUNTING MACHINES

Burroughs Corp
Clary Corp
Cummins-Chicago Corp
Datamatic Div
Friden Inc
International Business Machines Corp
A Kimball Co
Kleinschmidt Inc
Marchant Calculators Div Smith-Corona-Marchant
Monroe Calculating Machine Co
National Cash Register Co
Remington Rand Div
Royal McBee Corp
Teletype Corp
Underwood Corp
Victor Adding Machine Co

ACCOUNTING SYSTEMS

THE IDEAL SYSTEM CO

National Cash Register Co

ACETYLENE GAS

Air Reduction Sales Co
Burdell Oxygen Co of Cleveland Inc
Liquid Carbonic Div

LINDE CO

National Cylinder Gas Div

ADDITIVES, Fuel & Oil

Acheson Colloids Co
Actane Chemical Co

ALEMITE DIV

Alox Corp

AMALIE DIV

Atlantic Refining Co
Bardahl Mfg Corp
Barton Products Co
Bell Laboratory Inc
Bowes "Seal Fast" Corp
Castoroil Products Inc
Celco Corp
Champion Products Inc

CLIMAX MOLYBDENUM CO

Collinite Chemical Co
Cristy Chemical Corp
Curran Corp
Decar Chemical Products Co
Daubert Chemical Co

DU PONT DE NEMOURS & CO FINISHES DIV

Elco Lubricant Corp
Electro Products Co
Emerol Mfg Co
Ensign Products Co
Feenom Laboratories
Friction Proof Oil Corp
Gold Eagle Products Co
Grafo Colloids Corp

GULF OIL CORP

Gunk Chicago Co

HASTINGS MFG CO

Heet Div
Hollingshead Corp R M
Houghton & Co E F
International Metal Polish Co
Kano Laboratories
Kapro Corp
King Graphite Products Inc
Lubaid Co
Lubri-Gas International Inc

MAGNUS CHEMICAL CO

McGlaughlin Oil Co
Mergraf Oil Products Co

MOBIL OIL CO

National Refining Co

NUTMEG CHEMICAL CO

Octane Chemical Co
Pennsylvania Refining Co

PERMATEX CO

Petroleum Solvents Corp
Powertane Corp

For addresses of manufacturers, see the new special section starting on **page 199**

Protektoil Corp
Purfex Mfg Co
Pyroil Co
Radiator Specialty Co
Randall Products Mfg Co
Reliance Battery Products Co
Remaco Inc
Rust Master Chemical Corp
Service Supply Co
Shaler Co

STANDARD OIL CO

Swan-Finch Oil Co
Tumbler Laboratories J A
U. S. Chemical & Supply Co
United States Aviex Co
V-O Mfg Co
Warehouse Distributors Co
Warren Refining & Chemical Co
Warwick Laboratories Co
Watts-Wagner Co
White & Bagley Co
Wilbur & Williams & Co
Wilco Co
Zip Abrasive Co

ADJUSTERS, BRAKE *See Brake Adjusters*

ADJUSTERS, TIRE CHAIN *See Tire Chain Adjusters*

AIR BRAKES *See Brakes, Air*

AIR CLEANERS

AC SPARK PLUG ELECTRONICS DIV

Air-Maze Corp
Badger Mfg Corp
Cyclone Filter Corp
Dollinger Corp
Donaldson Co

FRAM CORP

Lee Filter Corp

PUROLATOR PRODUCTS INC

United Specialties Co of Illinois
Vortox Co

Air Compressors to Ammeters

AIR COMPRESSORS

Allis-Chalmers Mfg Co
American Air Compressor Corp
AMERICAN BRAKE SHOE CO KELLOGG DIV
Bell & Gossett Co
BENDIX-WESTINGHOUSE AUTOMOTIVE AIR BRAKE CO
Binks Mfg Co
Black Mfg Co
Brown Corp W R
Brunner Div Dunham-Bush Inc
Buell Mfg Co
Campbell-Hausfeld Co
Caterpillar Tractor Co
Cerlist Diesel Inc
Champion Pneumatic Machinery Co
CHICAGO PNEUMATIC TOOL CO
Clark Bros Co
Cochin Mfg Co J D
CUMMINS ENGINE CO
CURTIS MFG CO PNEUMATIC DIV
Davey Compressor Co Rotary Drill Div
Dayton Air Compressor Co
Decora Mfg Co
De Vilbiss Co
Emglo Products Corp
Erie Meter Systems Inc
Gardner-Denver Co
Grover Prods Co
Hadley Mfg Co
Hesse Carriage Co
INGERSOLL-RAND CO
Jaeger Machine Co
Joy Mfg Co
Kellog-American Div
Keystone Compressor Co
Le Roi Div Westinghouse Air Brake Co
LINCOLN ENGRG CO
M & E Mfg Co
MIDLAND-ROSS CORP OWOSSO DIV
National Compress Corp
Paache Airbrush Co
Pioneer Air Compressor Co
Power Brake Parts Mfg Co
Quincy Compressor Co
Saylor-Beall Mfg Co
Schramm Inc
Scott Air Compressor Co
Sharpe Mfg Co
Southwest Pump Co
Supreme Equipment Corp
Thomas Industries Inc Electric Sprayit Div
TOKHEIM CORP
United States Air Compressor Co
UNITED STATES RUBBER CO (parts only)
WAGNER ELECTRIC CORP
WEAVER MFG CO
Westinghouse Air Brake Co Industrial Products Div
Wilson Inc K R
Worthington Corp

AIR CONDITIONERS, Bus

Flexible Co
Frigikar Corp
HARRISON RADIATOR DIV GENERAL MOTORS CORP
McGraw-Edison Co
THERMO KING CORP

AIR CONDITIONERS, Cab

Bonzer-Western Corp
Capitol Refrigeration & Mfg Co
Eaton Mfg Co Heater Div
Frigikar Corp
G & S Mfg Co
Good-All Electric Mfg Co
HARRISON RADIATOR DIV
KYSOR HEATER CO
Metal Products Engineering Inc
Spitzka Mfg Co
Thermador Electrical Mfg Co

AIR CONDITIONERS, Passenger Cars

Eaton Mfg Co Heater Div
Ellis & Watts Products Co
Era Tool and Engineering Co
Frigikar Corp
Frigiquip Corp
HARRISON RADIATOR DIV
KYSOR HEATER CO
National Gas Equipment Co
Novi Equipment Co

AIR FILTERS *See Air Cleaners*
AIR HORNS *See Horns, Air*
AIR HOSE *See Hose, Air*
AIR MOTORS, STARTING *See Starting Motors, Air*
AIR SUSPENSIONS *See Springs, Air*
AIR VALVES *See Valves*
AIR NOZZLES *See Nozzles, Air*

ALARMS, Carbon Monoxide

CAMBRIDGE INSTRUMENT CO INC
Mine Safety Appliance Co

ALARMS, PRESSURE *See Signals*

ALARMS, Truck and Cargo Protection

Auto-Matic Alarm Systems
Babaco Alarm Systems Inc
Certified Burglar Alarm Systems
Ever-Guard Automatic Burglar Alarm Co Inc
The Tire Mart Inc National Fleet Service
Victor Burglar Alarm Co Inc

ALIGNMENT EQUIPMENT (Frame)

John Bean Div
Bear Mfg Co
Bee-Line Co
Bender Equipment Co J H
BLACKHAWK MFG CO
Builders Ornamental Iron Co
HEIN-WERNER CORP
Hunter Engineering Co
SNAP-ON TOOLS CORP

ALIGNMENT EQUIPMENT (Front End)

John Bean Div
Bear Mfg Co
Bee-Line Co
Bender Equipment Co J H
Bennett-Feragen
BRANICK MFG CO
Builders Ornamental Iron Co
HEIN-WERNER CORP
Kent-Moore Organization
Krumm Mfg Co T F
Kwik-Ezee Inc
Manbee Equip Div
Manzell Unit
Miller Mfg Co
Merrill Axle & Wheel Service
Mesco Products
SNAP-ON TOOLS CORP
WEAVER MFG CO
Wilco Products Inc
Zoerman-Clark Mfg Co

ALTERNATORS

DELCO-REMY DIV
General Electric Co Apparatus Sales Div
LEECE-NEVILLE CO

ALUMINUM

ALUMINUM CO OF AMERICA
American Nickeloid Co
Chase Brass & Copper Co
Colonial Alloys Co
Empire Metal Co
Fairmont Aluminum Co
Federated Metals Div
Hamden Steel & Aluminum Co
Harvey Aluminum Co
Hunter Douglas Aluminum Corp
KAISER ALUMINUM & CHEMICAL CORP
Niagara Falls Smelting & Refining Div
Olin Mathieson Chemical Corp Metals Div
Precision Extrusions
Revere Copper & Brass Inc
REYNOLDS METALS CO
Scovill Mfg Co

AMMETERS, Instrument Panel

AC SPARK PLUG ELECTRONICS DIV
ELECTRIC AUTOLITE CO
Hoyt Electrical Instrument Works Inc
KING-SEELEY CORP
Preferred Electric & Wire Co
Rochester Mfg Co Inc
Simpson Electric Co Div
STEWART-WARNER CORP INSTRUMENT DIV
Sun Electric Corp

United States Gauge Div
Weston Instruments Div

AMMETERS TEST *See Analyzers, Engine & Electrical*

ANALYZERS, Combustion

Allen Electric & Equipment Co
BACHARACH INDUSTRIAL INSTRUMENT CO
CAMBRIDGE INSTRUMENT CO INC
Electro Products Co
General Electric Co Apparatus Sales Div
Gow-Mac Instrument Co
Hanson Co
Heyer Industries Inc
King Electric Equipment Co
Permutit Co
SNAP-ON TOOLS CORP
Sun Electric Corp
Weidenhoff Corp

ANALYZERS (Engine and Electrical)

(See also Gages, Vacuum and Oscilloscopes)

Actane Chemical Co
Allen Electric & Equipment Co
Auto-Test Inc
Bee-Line Co
Du Mont Laboratories Inc Allen B
Electro Products Co
Empire Electronics Inc
Fox Valley Instrument Co
Hanson Co
Heyer Industries Inc
Kal-Equip Co
Kent-Moore Organization
King Electric Equipment Co
Mack Products Co
Motoraide Corp
Schauer Mfg Co
SNAP-ON TOOLS CORP
Sun Electric Corp
T & H Mfg Co
Triple-A Specialty Co
Weidenhoff Corp

ANTI-FREEZE, Cooling System

Ball Chemical Co
Cliffs Dow Chemical Co
COMMERCIAL SOLVENTS CORP
Dacar Chemical Products Co
Dow Chemical
du PONT de NEMOURS & CO E I POLYCHEMICAL DIV
ESSO STANDARD OIL CO
FIRESTONE TIRE & RUBBER CO
THE GENERAL TIRE & RUBBER CO
GULF OIL CORP
Jefferson Chemical Co
Master Co
MOBIL OIL CO
MOPAR DIV
NATIONAL CARBON CO
Octagon Process Inc
Olin Mathieson Chemical Corp Industrial Chemical Div
Petroleum Chemicals Co
Porte Mfg Co
Randall Products Mfg Co
SHELL OIL CO
Speco Inc
U S Industrial Chemicals Co Div
UNION CARBIDE CONSUMER PRODUCTS CO DIV
Volvoline Oil Co Div

ANTI-FREEZE, Fuel Line

Ashland Oil & Refining Co
Bardahl Mfg Corp
Barton Products Co
Bowes "Seal Fast" Corp
COMMERCIAL SOLVENTS CORP
Cristy Chemical Corp
Dacar Chemical Products Co
du PONT de NEMOURS & CO E I FINISHES DIV
Glisten Co
Gumout Div
Heet Div
Hollingshead Corp R M
Livingston Co
Lubri-Loy Co
Motor Kool Products Co
NATIONAL CARBON CO
NUTMEG CHEMICAL CO MOTIVE SPECIALTIES DIV
Petroleum Solvents Corp
Porte Mfg Co
Rust Master Chemical Corp
STANDARD OIL CO OF CALIF WESTERN OPERATIONS INC
Tumbler Laboratories J A
UNION CARBIDE CONSUMER PRODUCTS CO DIV
Wilco Co
X Laboratories
Zecol, Inc.

ANTI-THEFT DEVICES *See Alarms Truck & Cargo Protection*

ARBOR PRESSES *See Presses, Hydraulic*

ARC WELDERS *See Welders, Electric*

ARMATURES

American Generator & Armature Co
Arrow Armatures Co
ELECTRIC AUTOLITE CO
General Armature & Mfg Co

AUXILIARY TRANSMISSIONS *See Transmissions, Auxiliary*

For addresses of manufacturers, see the new special section starting on **page 199**

AXLES

AXLES, Front

CLARK EQUIPMENT CO
EATON MFG CO AXLE DIV
Hahn Motors Inc
Page and Page Co
ROCKWELL-STANDARD CORP (Timken-Detroit axles)
SHULER AXLE CO
United Mfg Co

AXLES, Front Drive

American Coleman Co
DANA CORP
F A B Mfg Co
FWD Corp
Marmon-Herrington Co
OSHKOSH MOTOR TRUCK INC
ROCKWELL-STANDARD CORP (Timken-Detroit axles)

AXLES, Rear Assembly

CLARK EQUIPMENT CO
Cook Bros Equipment Co
DANA CORP (including limited-slip differentials)
DETROIT AUTOMOTIVE PRODUCTS CORP
EATON MFG CO AXLE DIV
FWD Corp
Grico Two Axle Drive Co
HENDRICKSON MFG CO
Napco Axle Div
ROCKWELL - STANDARD CORP (Timken-Detroit axles)

AXLES, Rear, Two-Speed

EATON MFG CO AXLE DIV
ROCKWELL - STANDARD CORP (Timken-Detroit axles)

AXLES, Trailer

CLARK EQUIPMENT CO
COLLINS & ASSOCIATES INC
EATON MFG CO AXLE DIV
Fayette Mfg Co
French & Hecht Div
Grico Two Axle Drive Co
Hammer Blow Tool Co
Kay-Brunner Steel Products Inc
Kingham Trailer Co
Liggett Spring & Axle Co
Liggett Supply & Equipment Co
Napco Axle Div
Pollock Industries Inc (steering)
PRIOR PRODUCTS INC
ROCKWELL-STANDARD CORP (Timken-Detroit)
Shamrock Trailers & Axle Mfg Co
SHULER AXLE CO

Axle Belt Drive Adapters to Batteries

AXLES, TRAILER—*continued*

Slimp Axle Products
Spencer Mfg Co
Spencer-Safford Loadcraft Inc
Springfield Body & Trailer Co
Standard Forge & Axle Co
Truck Equipment Co Inc
Trucktor Corp
United Mfg Co

AXLE ALIGNING GAGES *See Alignment Equipment*

AXLE BELT DRIVE ADAPTERS

COLLINS & ASSOCIATES INC
THE DAYTON RUBBER CO
DAYTON STEEL FOUNDRY CO
DURKEE-ATWOOD CO
FAB Mfg Co
GATES RUBBER CO

AXLE DOLLIES (To Convert Semi Trailer to Full Trailer)

BROWN TRAILER DIV
HIGHWAY TRAILER CO
Saginaw Products Corp
Spencer-Safford Loadcraft Inc
Tec Div Heil Co
TIMPTE BROS INC
Wilson Inc

AXLE REPAIR STANDS *See Stands*

AXLE RING GEARS & PINIONS

Clark Equipment Co Gear & Forge Div
CLARK EQUIPMENT CO TRANSMISSION DIV
DANA CORP
DETROIT AUTOMOTIVE PRODUCTS CORP
Detroit Bevel Gear Co
EATON MFG CO AUTOMOTIVE GEAR DIV
FWD Corp
Fairfield Mfg Co
Levene Motor Co
New Process Gear Div Chrysler Corp
Perfection Gear Co
Republic Gear Co
ROCKWELL-STANDARD CORP (Timken-Detroit)
Warner Automotive Div

AXLE SHAFTS

Canton Drop Forging & Mfg Co
Detroit Bevel Gear Co
Dittmer Gear Mfg Corp
EATON MFG CO AXLE DIV
FWD Corp
Foote Axle & Forge Co
International Parts Corp
Napco Axle Div
Republic Gear Co
ROCKWELL-STANDARD CORP
Spencer Mfg Co
Steel and Tubes Inc
U S AXLE CO INC
York Electric & Machine Co

AXLE SHAFT PULLERS *See Pullers, Axle Shaft*

AXLE SHIMS *See Shims, Axle Caster & Camber*

AXLE STRAIGHTENERS *See Alignment Equipment*

AXLE SUSPENSION UNITS, Trailer

BINKLEY MANUFACTURING CO
BROWN TRAILER DIV
Clevite Harris Products Inc
COLLINS & ASSOCIATES INC
Copco Trailers Div
DAYTON STEEL FOUNDRY CO
DeLay Industries Inc
DETROIT AUTOMOTIVE PRODUCTS CORP
FAB Mfg Co
Fayette Mfg Co
Flexmaster Div
FRUEHAUF TRAILER CO
Great Dane Trailers Inc
Grico Two Axle Drive Co
Hammer Blow Tool Co
HENDRICKSON MFG CO
HIGHWAY TRAILER CO
HOBBS TRAILER DIV
Kingham Trailer Co Inc
Neway Equipment Co
Page & Page
Pointer-Williamette Co
REYNOLDS MFG CO
Shamrock Trailers & Axle Mfg Co
Spencer-Safford Loadcraft Inc
Standard Forge & Axle Co
Steel Products Co Inc
TRAILMOBILE INC
Truck Equipment Co
Truckstell Mfg Co
Trucktor Corp
United Mfg Co
WESTERN UNIT CORP
Youngstown Steel Car Corp

AXLE UNITS, Third

Auto Transport Mfg Co
DAYTON STEEL FOUNDRY CO
DETROIT AUTOMOTIVE PRODUCTS CORP
F A B Mfg Co
Fox Body Co
FRUEHAUF TRAILER CO
HENDRICKSON MFG CO
HOBBS TRAILERS DIV
Hutchens & Son Metal Products Inc
Little Giant Products Inc
Neway Equipment Co
Page & Page
REYNOLDS MFG CO
Road Runner Corp
Tec Div Heil Co
TRAILMOBILE INC
Truck Equipment Co
Truckstell Mfg Co
Trucktor Corp
Weber Trailer & Mfg Co

BABBITTING MACHINES

Freeport Machine Works
Waterbury Tool Div

BARRICADES, Highway Warning

Pacific Highway Electronics Inc

BALANCERS, CRANKSHAFTS *See Crankshaft Balancing Machines*

BALANCERS, WHEEL *See Wheel Balancing Machines*

BARS, BORING *See Boring Bars*

BARS, TOWING *See Towing Bars*

BATTERIES

BATTERIES, Storage

Allen's Cargo Batteries
American Battery Co
Am-Plus Storage Battery Co
Atlantic Battery Co
Bowers Battery & Spark Plug Co
Continental Battery Co
Continental Mfg Corp
Crescent Battery & Light Co
Cumberland Battery Mfg Co
DELCO-REMY DIV
Douglas Battery Mfg Co
East Penn Mfg Co
ELECTRIC AUTOLITE BATTERY DIV
EXIDE AUTOMOTIVE DIV
FIRESTONE TIRE & RUBBER CO
GENERAL TIRE & RUBBER CO
Gill Electric Mfg Corp
Globe-Union Inc
GOODYEAR TIRE & RUBBER CO
GOULD-NATIONAL BATTERIES INC
Grant Scott Marlott Battery Div
Grant Storage Battery Div
GULF OIL CORP
KELLY-SPRINGFIELD TIRE CO
LAHER SPRING & TIRE CORP
LEE RUBBER & TIRE CORP
MOBIL OIL CO
MOPAR DIV
Nic-L-Silver Battery Co
Pate Oil Co
Pennsylvania Tire Co
Perrin Quality Products Corp

Battery Boxes to Battery Testers

Perry Batteries
Prest-O-Lite Battery Div
Price Battery Corp
Prime Battery Mfg Co
Reading Batteries Div
Red Diamond Battery Mfg Co
Reliance Battery Products Co

SCRANTON CELLOMATIC BATTERY CO

Southland Battery Co
Standard Electric Co
States Batteries Inc
Surrette Storage Battery Co
Trojan Battery Co

UNITED MOTORS SERVICE

UNITED STATES RUBBER CO

Universal Battery Co
Volta Battery Corp

THE WHITE MOTOR CO

WILLARD STORAGE BATTERY DIV

Wisconsin Storage Battery Co
Witherbee Storage Battery Co

BATTERY BOXES

Berkson Products Inc
Blitz Electric Co
Champ-Items Inc
Continental Bearings Corp
Duro Metal Parts Co
Five Star Mfg Co

GENERAL TIRE & RUBBER CO

Houser Engng & Mfg Co

K-D MFG CO

Kirspel Industries Inc
Loock & Co R J
Murray Corp
New Britain Machine Co
Pollak Corp Joseph
Powercraft Corp
Preferred Electric & Wire Co
Rovtar Tool-Die Mfg Co
Sal Metal Products Co
Triple-A Specialty Co
Victor Instrument Mfg Co
Wells Mfg Corp
Wheel Parts & Mfg Co
Zim Mfg Co

BATTERY CABLE

American Electric Cable Co

BELDEN MFG CO

BORROUGHS TOOL & EQUIPMENT CORP

Bowes "Seal Fast" Corp
Comet Automotive Mfg Corp
Crescent Co
East Penn Mfg Co

ELECTRIC AUTO-LITE CO

EXIDE AUTOMOTIVE DIV

Essex Wire Corp

FIRESTONE TIRE & RUBBER CO

Freedco Products Inc
General Cable Corp

GOULD-NATIONAL BATTERIES INC INDUSTRIAL DIV

Jordan Electrical Products Div

MOBIL OIL CO

Monarch Insulated Wire Co
National Ignition Mfg Co

PACKARD ELECTRIC DIV

Preferred Electric & Wire Co
Sittler Corp
Sorensen Mfg Co P

STANDARD MOTOR PRODUCTS INC

Triple-A-Specialty Co
Truck Equipment Distributors Inc
Walker Bros
Whitaker Cable Corp

WILLARD STORAGE BATTERY DIV

BATTERY CHARGERS

Allen Electric & Equipment Co
Associated Equipment Corp
Baldor Electric Co
Berg-Gibson Mfg Co
Blitz Electric Co
Bogue Electric Mfg Co
Christie Electric Corp
Electric Products Co
Electric Service Systems Inc

EXIDE AUTOMOTIVE DIV

Forney Industries
Fox Products Co
Grant Storage Battery Div
H & H Products Mfg Co
Heyer Industries Inc
Hobart Bros Co
Jordan Electric Products Div
King Electric Equipment Co
Marquette Mfg Co Inc
Mercury Electric Corp
Mid-States Welder Mfg Co

MOBIL OIL CO

Motoraide Corp
Motor Generator Corp
Peer Inc Charger Div
Pure Oil Co
Put Battery Charger Co
Quick Charge Div
Rectifier Engrg Co
Schauer Mfg Corp

SNAP-ON TOOLS CORP

Sun Electric Corp
Terado Co
Triple-A Specialty Co

WESTINGHOUSE ELECTRIC CORP

WILLARD STORAGE BATTERY DIV

Wilson Inc K R

BATTERY ELECTROLYTE

American Cyanamid Co
Blue-Dyne Div

DELCO-REMY DIV

DU PONT DE NEMOURS & CO E I GRASSELLI CHEMICALS DEPT

ELECTRIC AUTOLITE CO

For addresses of manufacturers, see the new special section starting on **page 199**

GOULD-NATIONAL BATTERIES INC INDUSTRIAL DIV

D W Onan & Sons Inc
Vitalyte Corp

BATTERY HOLD DOWN CLAMPS

American Motor Products Co
Berkson Prods Inc
Champ-Items
Christie Electric Corp
Cuyahoga Spring Co

R E DIETZ CO

Houser Engrg & Mfg Co
Kravek Mfg Corp

LAMSON & SESSIONS CO

Loock & Co R J
Murray Corp
Sal Metal Products Co

STANDARD MOTOR PRODUCTS INC

Triple-A-Specialty Co
Wells Mfg Corp
Wheel Parts & Mfg Co
Whitaker Cable Corp

BATTERY HYDROMETERS *See Hydrometers*

BATTERY TERMINAL COMPOUNDS

Allube Corp
Arsco Mfg & Sales Corp
Dow Corning Corp

GOULD-NATIONAL BATTERIES INC INDUSTRIAL DIV

Noco Co
No-Kro Co
Pep Mfg Co
Radiator Seal Co
Warehouse Distributing Co
Wolfe-Kote Co

BATTERY TESTERS (Electrical)

(See also Hydrometers)

Associated Equipment Corp
Baldor Electric Co
Christie Electric Corp
Continental Bearings Corp

EXIDE AUTOMOTIVE DIV

Fox Products Co
General Scientific Equip Co
Graham Research Inc
Hanson Co Harvey E
Heyer Industries Inc
Hoyt Electrical Instrument Works
Jordan Electrical Products Div
King Electric Equipment Co
Marquette Mfg Co Inc
Mercury Electric Corp

MOBIL OIL CO

Powercraft Corp
Rectifier Engrg Co

SNAP-ON TOOLS CORP

Sun Electric Corp
Terado Co
Triple A Specialty Co
Tungsten Mfg Co
Weidenhoff Corp

Bearings to Bench Grinders

BATTERY TESTERS — *continued*

WILLARD STORAGE BATTERY DIV ELECTRICAL STORAGE BATTERY CO

Wilson Inc K R

BATTERY TOOLS *See Tools, Hand*

BEARINGS

BEARINGS, Ball

Aetna Ball & Roller Bearing Co Div
Ahlberg Bearing Co
American Ball Bearing Co
Andrew Parts Mfg Co
Andrews Bearing Co
Automotive Thrust Bearings Corp
Ball & Roller Bearing Co

BEARINGS CO OF AMERICA DIV

Boston Gear Works Div
Burgess-Norton Mfg Co

CLEVITE SERVICE DIV

Continental Bearing Corp
Fafnir Bearing Co
Federal Bearings Co

FEDERAL-MOGUL SERVICE DIV

General Pressed Metal Corp
Gilpak Automotive Products Div
Green Ball Bearing Co
Gwilliam Co
Hoover Ball & Bearing Co
International Parts Corp
Kaydon Engineering Corp
L & S Bearing Co
Majestic Bearing Div
Marlin-Rockwell Corp
Master Parts Div
New Departure Div
Nice Ball Bearing Co
Norma-Hoffmann Bearings Corp
Perfect Parts Inc
SKF Industries Inc
Schatz Mfg Co
Split Ballbearing Div
Stephens-Adamson Mfg Co
Thomson Industries Inc
Torrington Co

TRANSIT PARTS CO

UNITED MOTORS SERVICE

Wagner Mfg Co E R

BEARINGS & BUSHINGS

Al-Fin Div

ALLISON DIV

ALUMINUM CO OF AMERICA

Aluminum Industries Inc
Bohn Aluminum & Brass Corp
Bronze Bearings Inc
Buckeye Brass & Mfg Co
Bunting Brass & Bronze Co

CLEVELAND GRAPHITE BRONZE DIV

CLEVITE SERVICE DIV

Detroit Aluminum & Brass Corp
Doan Mfg Div (rubber)
Dura-Bond Bearing Co

EATON MFG CO AUTOMOTIVE DIV

ELECTRIC AUTOLITE CO

FEDERAL-MOGUL DIV

International Parts Corp
Johnson Bronze Corp
Mallory & Co

McQUAY-NORRIS MFG CO

MORAINE PRODUCTS DIV

Muncie Parts Mfg Co
National Molded Products Inc
Pioneer Motor Bearing Co
Toledo Steel Products Co

TRANSIT PARTS CO

Wolverine Gear & Parts Co

BEARINGS, CLUTCH THROWOUT *See Clutch Throwout Bearings*

BEARINGS, Crankshaft & Camshaft

ALLISON DIV

Dura-Bond Engine Parts Co

FEDERAL-MOGUL SERVICE DIV

Johnson Bronze Co

McQUAY-NORRIS MFG CO

MORAINE PRODUCTS DIV

Shepard-Thomason Co
Toledo Steel Products Co

THOMPSON PRODUCTS REPLACEMENT DIV

TRANSIT PARTS MFG CO

BEARINGS, Roller

Aetna Ball & Roller Bearing Co Div
American Ball Bearing Co
Andrew Parts Mfg Co
Automotive Thrust Bearings Corp
Ball & Roller Bearing Co

BOWER ROLLER BEARING DIV

Continental Bearings Corp

FEDERAL-MOGUL SERVICE DIV

Geneva Metal Wheel Co
Gilpak Automotive Products Div
Gwilliam Co
Hoover Ball & Bearing Co
Hyatt Bearings Div
International Parts Corp
Kaydon Engineering Corp
L & S Bearing Co
Majestic Bearing Div
Norma-Hoffmann Bearing Corp
Orange Roller Bearing Co
Roller Bearing Co of America
Rollway Bearing Co
SKF Industries Inc
Split Ball Bearing Div

TIMKEN ROLLER BEARING CO

Torrington Co
Tyson Bearing Co Div

UNITED MOTORS SERVICE

For addresses of manufacturers, see the new special section starting on **page 199**

BEARING ALIGN BORERS

Ammco Tools Inc
Cedar Rapids Engrg Co
Ex-Cell-O Corp
Lempco Products Inc
Storm-Vulcan Inc
Tobin-Arp Mfg Co
Winona Tool Mfg Co

BEARING PACKERS

BEARING PULLERS *See Pullers*

ALEMITE DIV

Bennett-Feragen
Gray Co
Turk Co Wm

BEARING WEAR TESTERS

Auto-Test Inc
Bennett-Feragen Inc

FEDERAL-MOGUL SERVICE DIV

Kent-Moore Organization Inc

BEARING REAMERS *See Reamers Main & Con Rod Bearing*

BELT DRIVES FOR REAR AXLES *See Axle Belt Drive Adapters*

BELTS, FAN *See Fan Belts*

BELTS, SAFETY *See Seat Belts*

BENCHES, ELECTRIC TEST *See Testers, Electrical*

BENCH GRINDERS

ALBERTSON & CO

Atlas Press Co
Baldor Electric Co

BLACK & DECKER MFG CO

Bradford Machine Tool Co
Cincinnati Electrical Tool Co
Dunmore Co
Hammond Machinery Builders Inc
Hisey-Wolf Machine Co Div
Lima Electric Motor Co
Millers Falls Co
Milwaukee Electric Tool Co
Prosser & Son Thomas

REMINGTON ARMS CO

Richards Co J A
Rockwell Mfg Co
Royal Oak Tool & Machine Co
Schauer Machine Co

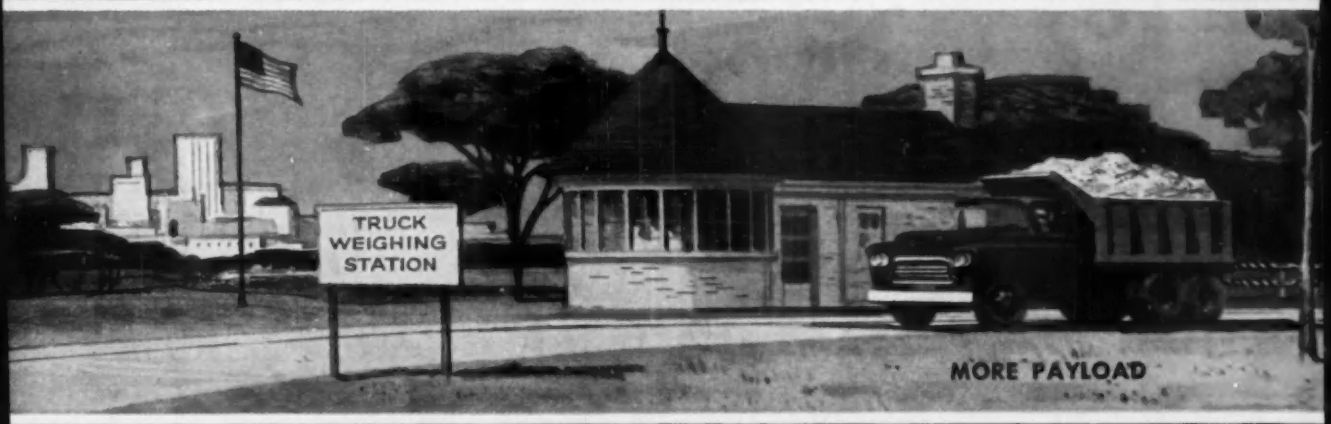
SNAP-ON TOOLS CORP

Skil Corp
SpeedWay Mfg Co
Standard Electrical Tool Co
Stanley Electric Tool Div
Thor Power Tool Co
United States Electrical Tool Co
Valley Electric Corp
Walker-Turner Div
Wickman Mfg Co
Wilson Inc K R
Wissota Mfg Co
Wood Co Frank N

BENCH LATHES *See Lathes, Bench*

BENDERS, TUBE *See Tubing Benders*

REASONS WHY VACUUM POWER BRAKING IS FIRST CHOICE ON TRUCKS



WITH BENDIX HYDROVAC* LEADING ALL OTHER MAKES COMBINED

When it comes to power braking, the overwhelming choice on trucks is vacuum power, with Hydrovac leading all other makes combined.

You can bet your bottom dollar that such overwhelming preference is based on solid reasons. For example:

By saving dead weight, vacuum power can add several hundred pounds to *payload*, and earn extra dollars, as ton-miles build up.

In addition, there is the vital *safety stand-by* of instantly available physical braking, instead of "no power, no brakes!"

Then, with vacuum power there is less first cost and less expense for maintenance, and it is completely free of compressor drain on engine power.

Any way you look at it, it will pay you to make Hydrovac Vacuum Power Brakes your choice for the best in power braking . . . for the most in value.

*REG. U.S. PAT. OFF.

Bendix PRODUCTS DIVISION South Bend, IND.

Bendix AVIATION CORPORATION

Bins to Bodies, Commercial

BINS, Parts Storage

Akro-Mils Inc
American Metal Products Co
Bathey Mfg Co
Bay Products
BERGER MFG DIV
Bernard Franklin Co
Borroughs Mfg Co
DeLuxe Metal Furniture Co
Equipto Div
Factory Service Co
Fort Steuben Metal Products Co
Frick-Gallagher Mfg Co
Frontier Mfg Co
Heller & Co W C
Hope Metal Products Co
Lewis-Shepard Products Inc
Lyon Metal Products Inc
Midland Mfg Inc
Miller Wood Products Co
Neiman Steel Equipment Co
Renie Metal Products Corp
Space Saving Equipment Co
Supreme Steel Equip Co
Union Metal Mfg Co

BLEEDERS, HYDRAULIC BRAKE *See Brake Bleeders*

BLOCKS, BRAKE *See Brake Blocks*

BODIES

BODIES, Ambulance & Funeral

BOYERTOWN AUTO BODY WORKS INC
Eureka Co
Flxible Co
Franklin Body & Equipment Corp
Hesse & Eisenhardt Co
Meteor Motor Car Co
Miller Div
National Body Mfg Co
Superior Coach Corp Southern Div

BODIES, Commercial

ALF Body Corp
Allegheny Body Co
ALLEN CO R W
Aluminum Body Corp
American Body & Equipment Co
American Body & Trailer Inc
American Fire Apparatus Co
American Truck Body Co
Andrews Industries Inc
Ansted Corp
Arkansas Machine Specialty Co
Ashton Equipment Co
Auto Body Works
Badger Body Mfg Co
Baker Equipment Engrg Co
Baker Trailer & Body Co
Baltimore Body Corp
Barkow Co H
Barry & Baily Co
BARTLETT TRAILER CORP
Batavia Body Co
Baughman Mfg Co
John Bean Div
Bedell Trailer Co
Belgrade Wagon Works
Belmont Body Builders
Black & Sons Inc Adam
Boardman Co
Body Builders Inc
Bolick Sons Co Jerome
Born & Sons Inc Herman N
BOYERTOWN AUTO BODY WORKS INC
Brown Inc Dayton T
BROWN TRAILER DIV
Brown Truck & Trailer Mfg Co
Brunswick Body Wks
BUDD CO
C & C Trailer & Body Co
Carpenter Body Works Inc
Cato Trailer Service Co
Chain Belt Co
Checker Motors Corp
Clark Co B M
Clayson-Lorenz Co
Cliffside Body Corp
Coby Corp
COLLINS & ASSOCIATES INC
Commercial Body Corp
Cook Body Co
Copco Trailers Div
Couse Mfg Inc
Crown Body & Coach Corp
Crown Steel Products Co
Cutler Metal Products Co
DEK Mfg Co
Daybrook Hydraulic Div
De Hart & Sons H A
DeKalb Commercial Body Co W
Delphi Body Works
Diehl & Sons Inc
DORSEY TRAILERS INC
Dura-Bilt Body Co
Eight Point Trailer Co
Elder Trailer & Body Inc
Evans Mfg Co
Feigelson Co Alex
Finnesey Body Co
Fox Body Co
Franklin Auto Body & Equipment Corp
FRUEHAUF TRAILER CO
G & G Mechanical Co
Gar Wood Industries Inc
General Body Mfg Co
Gentry Body & Trailer Co
Gertenslager Co
Giant Mfg Co
Gichner Iron Works Inc Fred S
Gindy Mfg Co
Gordon Metal Products Co
Grant Body Mfg Corp
Great Dane Trailers Inc
HACKNEY BROS BODY CO
Hackney & Sons J A
Harrisburg Truck Body Co
Heil Co
Hercules Galion Products Inc (transit concrete mixers)
Hesse Carriage Co
Hews Body Co
HIGHWAY TRAILER CO
HOBBS TRAILERS DIV
Hoffman Auto Body Service Inc
Holby Body Co E

For addresses of manufacturers, see the new special section starting on **page 199**

Holan Corp
Hooper Body Corp
Hubbard Mfg Co
Hughes-Keenan Div
Hyde Corp
Hydro E-Z Pack Div (refuse removal)
Industrial Steel Tank & Body Works Inc
Ingersoll Kalamazoo Div
Jannell & Son Body Co
Jefferson Body Co
Johnson Welding & Mfg Co
Kennedy Mfg Co
Kensington Wagon Works
Kentucky Mfg Co
Ketter Truck Bodies
Kewanee Mfg Co
KEYSTONE TRAILER & EQUIPMENT CO
Keystone Wagon Works Inc
Kiley Co James A
Kingham Trailer Co
Klein Body Co
Knapheide Mfg Co
Koch & Son Mfg Co
Koenig Iron Works
Koerner Sons Inc John
Lacey & Sons Co W F
Lagerquist Body Co
Lang Co
Long Trailer Service
LYNCOACH & TRUCK CO INC
Maday Body & Equipment Corp
M-B Corp
Manley Div
Marion Body Works
Maryland Mfg Co
Mayer Body Corp
McCabe-Powers Auto Body Co
Meeks Son S J
Mercury Aircraft Inc
Metals Body Works
Mickey Body Co W F
Midwest Body & Mfg Div
Miller-Meteor Motor Car Div
Miller Trailers Inc
Millington Truck Body Co
Minneapolis Freeman Mfg Co
Modern Auto Body Builders Co
Moline Body Co
Montgomery Co E R
MONTPELIER MFG CO
MORRISON STEEL PRODUCTS INC
Morse Body Mfg Co
Morysville Body Works Inc
Municipal Supply Co
Murphy Body Works Inc
Nabors Co W C
National Truck Equipment Co
New Haven Carriage & Auto Works
Niederhut Carriage Co
Nogues Body Co
Novelty Carriage Works Inc
Ohio Body Mfg Co
Olsen & Son R P
Olson Corp J B E
Olson & Son Inc
Omaha Body & Equipment Co
Omaha Standard
Oneida Products Div
Pac-Mor Mfg Co
Parsons Engineering Corp
Penn Body Div
Pirsch & Sons Co Peter
Press' Sons Inc Jacob
Providence Body Co
Quitslund Bodies & Equipment
R B Co

This Brand-New Parts Catalog

Will HELP You

TODAY, Shuler Axle is proud to offer you the industry's *best parts-catalog*—the brand-new, 36-page, 1960 issue, for anyone and everyone who ever needs axle or brake replacement parts.

All parts are shown in large, clear photographs—not drawings. Principal dimensions are given for each part. Thus you quickly, easily identify the parts you want—no guesswork, no mistakes.

Use the coupon today for getting your copy of this really helpful and *timesaving* parts catalog.

SHULER AXLES

SHULER AXLE COMPANY, Incorporated, LOUISVILLE, KENTUCKY

SALES OFFICES IN CHICAGO, DETROIT, PHILADELPHIA, OAKLAND AND TULSA

Subsidiary of Fuller Manufacturing Company
Affiliate of Eaton Manufacturing Company

WEST COAST WAREHOUSE
Oakland, California

SOUTHWEST WAREHOUSE
Fort Worth, Texas

Shuler Axle Company, Inc.
2907 South 2nd Street
Louisville, Kentucky

Gentlemen:
Without obligation, please send me a copy of the new 1960 Shuler Axle service parts catalog.

Name.....

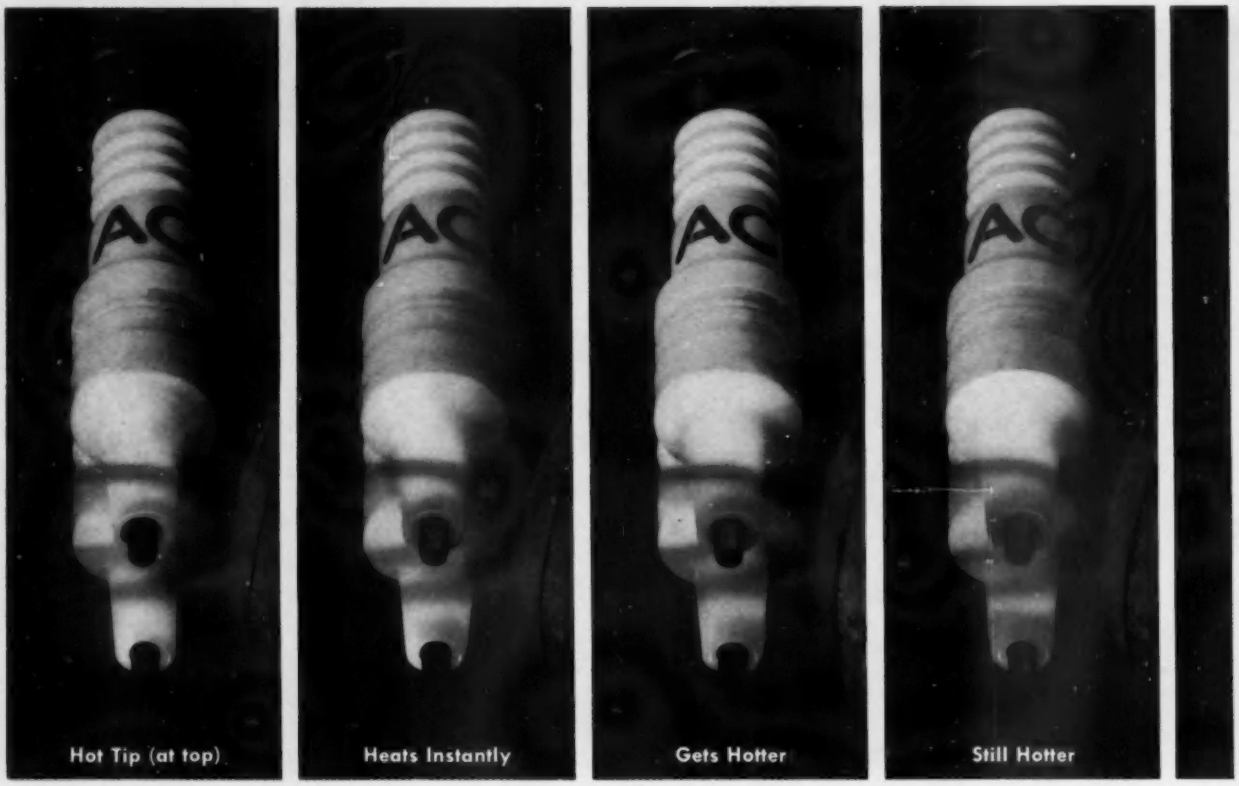
Company.....

Street.....

City.....Zone.....State.....

BLOW-TORCH TEST SHOWS . .

Heats Faster.



Hot Tip (at top) | Heats Instantly | Gets Hotter | Still Hotter

...to give you lower

The dramatic picture sequence above proves the ability of AC's exclusive "Hot Tip" design, to outperform other spark plugs.

The photographs show the insulator of an AC "Hot Tip" and the insulator of another spark plug, placed in the 2000° heat of a blow torch. (The torch flame is shown traveling from right to left in the first four pictures.)

AC's "Hot Tip" heats up instantly, while the other tip heats up more slowly.

This means that AC's exclusive "Hot Tip" burns off carbon deposits as soon as they form, stays clean longer under severest operating conditions for longer spark plug life.

Removed from the flame, the "Hot Tip" cools instantly, while the other tip cools more slowly. This instant cooling prevents engine damaging pre-ignition that can rob you of power and gasoline mileage.

Remember this great AC quality feature next time you specify spark plugs for your trucks. Put AC "Hot Tips" to work for peak performance and lower costs per mile.

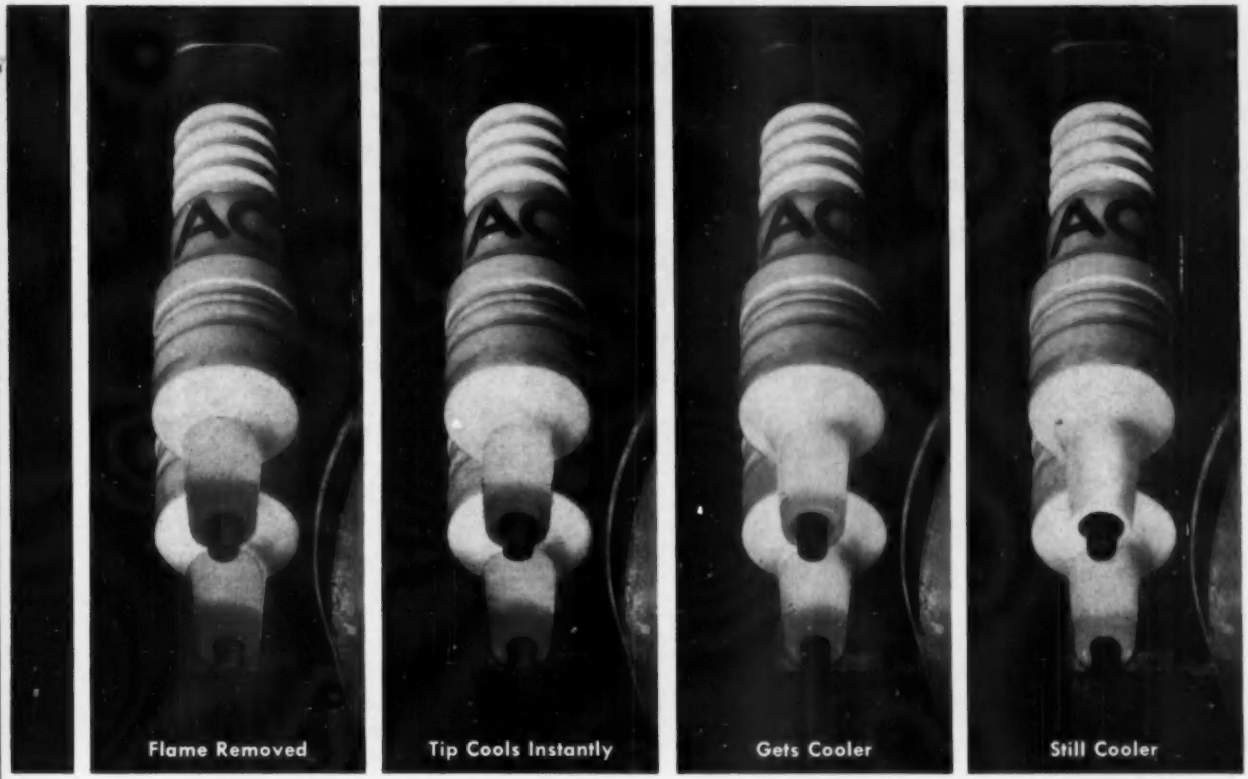
THEY MUST BE THE BEST!

AC SPARK PLUG ✿ THE ELECTRONICS DIVISION OF GENERAL MOTORS

SAVE IN THE LONG RUN WITH **new AC Fire-Ring**

. FAMOUS AC "HOT TIP"

.. Cools Faster



costs per mile!

AC Offers Widest Selection in the Industry

Now, in AC's complete line of commercial spark plugs, you get precisely the right plugs for your trucks and your hauling jobs.

The AC line contains ten special 14MM plugs for Chevrolet, GMC and other popular trucks, and six 18MM plugs for still other makes. AC offers widest selection in the industry!

Check your spark plugs. Make certain you're using the right plugs to do the right job for you!

Every AC features the exclusive Hot Tip that heats faster, cools faster to stay clean longer.

AC PRESENTS THE ART CARNEY SHOW, NBC-TV, DECEMBER 4

Spark Plugs

Bodies, Prefabricated to Body Hoists

BODIES,—*continued*

Reading Body Works Inc
Reliance Trailer & Truck Co
Remke Inc
Roadway Mounting & Equip Co
Rock Hill Body Co
Santeler Bros
Scammell & Sons
Schayer & Badinger Inc
Schmitt & Son Inc John V
Schnabel Co S
Servall Truck Body Mfg Co
Sharpsville Steel Fabricators Inc
Sherman & Co Earl
Silver Body Works Inc
Soffe & Son Morris
Stahl Metal Products Inc
Standard Auto Body Co
Steffen Body Co O F
Stewart Steel Products Inc
Stoughton Cab & Body Co
STRICK TRAILERS
Superior Auto Inc
Superior Coach Corp
Swab Wagon Co
Tec Div Heil Co
Tel-E-Lect Products Inc
Theurer Wagon Works Inc
Thomas & Co Peter
Thompson Trailer Corp
TIMPTE BROS INC
Towner Mfg Co
Trailco Mfg & Sales Co
Transport Products Co
Travelodge Corp
Triangle Body Works
Truck Engrg Co
Truck Parts & Equipment Inc
Truck Welding & Equipment Co
Union City Body Co
UNISTEEL BODY CO
Utility Tool & Body Co
Utility Trailer Mfg Co
Veenema & Wiegers Inc
Wade & Dunton Inc
Wall Mfg Co
Ward Motor Vehicle Co
Watkins-Dunn Co Inc
Wayne Works Div
Weber Trailer & Mfg Co
Weir Body Co
Welch Mfg Co
Weld-Built Body Co
Wentworth & Irwin Inc
Weston Dump Body Co
Williamsen Body & Equipment Co
Winter-Weiss Co
Wright Co Thomas
Yancey Bros
Yankee Motor Bodies Corp
YORK-HOOVER CORP BODY DIV

BODIES, Commercial Prefabricated

Aluminum Body Corp
Black & Sons Inc Adam
BROWN TRAILER DIV
Brunswick Body Works
BUDD CO THE
COLLINS & ASSOCIATES INC
De Hart & Son H A
FRUEHAUF TRAILER CO
Gichner Iron Works Inc Fred S
Hews Body Works
Lindsay Structure Div
LYNCOACH & TRUCK CO
Mayday Body & Equipment Co
Mayer Body Corp
MORRISON STEEL PRODUCTS INC
PARISH PRESSED STEEL CO
PREMIER MFG CO
Servall Truck Body Mfg Co
TIMPTE BROS INC

BODIES, Dump

(See also Trucks, Dump—Construction & Off Highway)

Aluminum Body Corp
Anthony Co
Auto Truck Steel Body Co
Baughman Mfg Co
Black & Sons Inc Adam
Body Builders Inc
Clark Co B M
Converto Mfg Co
Cook Bros Equip Co
Daybrook Hydraulic Div
Dempster Bros Inc
Easton Car & Construction Co
Feigelson Co Alex
FONTAINE TRUCK EQUIPMENT CO
Galion Allsteel Body Co
Gar Wood Industries Inc
Gichner Iron Works Inc Fred S
Hercules Steel Products Co
Independent Iron Works
Koenig Iron Works
Lang Co
Lodestar Corp
Marion Metal Products Co
Mayday Body & Equipment Co
Mayer Body Corp
Montgomery Co E R
National Truck Equipment Co
Penn Body Div
Perfection Steel Body Co
Press' Sons Inc Jacob
Providence Body Co
Roadway Mounting & Equip Co
Schnabel Co S
Sicard Industries Inc
Standard Auto Body Co
Superior Auto Inc
Superior Metal Products Inc
TEC DIV HEIL CO
Thomas & Co Peter
TIMPTE BROS INC
Truck Engineering Co
Truck Equipment Co
Truck Welding & Equipment Co
Welch Mfg Co
Weston Dump Body Co
Williamsen Body & Equipment Co

BODIES, Public Utility

Allegheny Body Co
Auto Body Works
Baker Equipment Engrg Co
Crown Steel Products Co
Delphi Body Works
Farrell Mfg Co
Gichner Iron Works Inc Fred S
Gordon Metal Products Co
Grant Body Mfg Corp
HACKNEY BROS BODY CO
HIGHWAY TRAILER CO
Holan Corp J H
Kiley Co James A
Klein Body Co
McCabe-Powers Auto Body Co
MORRISON STEEL PRODUCTS INC
Morysville Body Works Inc
Novelty Carriage Works Inc
Stahl Metal Products Inc
Superior Auto Inc
Thompson Trailer Corp
Transport Products Co
Truck Engrg Co
Utility Tool & Body Co
Yankee Motor Bodies Corp
YORK-HOOVER CORP BODY DIV

BODIES, TANK *See Tanks, Trailer & Truck Body*
BODIES, WRECKER *See Wreckers*

BODY HARDWARE

Adams & Westlake Co
American Forging & Socket Co
Attwood Brass Works Inc
Atwood Vacuum Machine Co
Auto Vehicle Parts Co
BINKLEY MFG CO
Bordner Mfg Co
Bowen Products Corp
Chicago Lock Co
Cinch Mfg Co
Croneame Inc
Decker Co Richard M
Dura Div
EBERHARD MFG CO DIV
Ferro Stamping Co
GENERAL LOGISTICS DIV
HANSEN MFG CO A L
Hartwell Aviation Supply Co
Jacob Co F L
Kason Hardware Corp
Kneuer Tail Board Co
Mayday Body & Equipment Co
MINER INC W H
Nixdorf-Krein Mfg Co
Polar Hardware Mfg Co
PORTER CO H K FORGE & FITTINGS DIV
Protectoseal Co
Queen City Forging Co
Rockford Metal Products Inc
Servwell Products Co
Sosss Mfg Co
Standard Products Co
Stanley Works Pressed Metal Div
Ternstedt Div
Tompkins H S
Wagner Mfg Co
Yale & Towne Mfg Co

BODY HOISTS (For Dump Bodies)

Anthony Co
Cemco Industries Inc
COLLINS & ASSOCIATES INC

Body Parts to Brakes

Converto Mfg Co
Cook Bros Equipment Co
Cresci & Son Inc
Daybrook Hydraulic Div
Galion Allsteel Body Co
Gar Wood Industries Inc
Heil Co
Hercules Steel Products Co
Ingersoll Kalamazoo Div
Little Giant Products Inc
Lundell Mfg Co
Marion Metal Products Co
Mayday Body & Equipment Co
Minneapolis Freeman Mfg Co
Omaha Body and Equipment Co
Omaha Standard
Penn Body Div
Perfection Steel Body Co
Portable Elevator Mfg Co
Schwartz Mfg Co
Shaw Box Crane & Hoist Div

TEC DIV HEIL CO

TIMPTE BROS INC

Truck Engrg Co
Truck Equipment Co Inc
Weston Dump Body Co
Wisconsin Hydraulics Inc

BODY PARTS, Pre-Shaped

(See also Body Hardware)

Anzick Auto Body Parts Co
Bath & Co Cyril Metal Form Div

BINKLEY MFG CO

Boardman Co

BUDD CO

Cleveland Hardware & Forging Co
Cook Metal Works
Cutler Metal Products Co

DANA CORP

Edwards Co Inc O M
Excel Corp
Hart Metal Products Corp
Hill Auto Body Metal Co
Holan Corp J H
Hutchins Mfg Co

KINNEAR MFG CO

Kirk & Blum Mfg Co
Lewgust Corp
Lindsay Structure Inc
Mayday Body & Equipment Co
Metalcraft Automotive Div Inc
Met-L-Wood Corp
Midwest Body & Mfg Div

MINER W H INC

Molded Fiber Glass Companies
Monroe Mfg Co
Nash Bros Co

PARISH PRESSED STEEL DIV

PORTER CO H K FORGE & FITTINGS DIV

Randall Co
Revere Copper & Brass Inc
Rex Metal Parts Co
Servwell Products Co
Truck-A-Door Co
Youngstown Steel Car Corp

BODY POLISH *See Polish & Wax (Body)*

BODY REPAIR COMPOUNDS

Atomized Materials Co
Bakelite Co
Boyle-Midway Inc Div of American Home Products Corp
Dynatron Corp
Econite Miracle Products Inc
Fibre Glass Evercoat Co Inc

GATES ENGINEERING CO

Hollingshead Corp R M
Houghton Laboratories Inc
International Metal Polish Co
Kenoh Products Co
Marson Corp
McKay Co
Pioneer Chemical & Mfg Co
Ren Plastics Inc
Ruscoe Co W J
Sheffield Bronze Paint Corp

SHERWIN WILLIAMS CO

Swiss Laboratory
Taylor & Art Inc
Unican Plastics Co Inc
Woodhill Chemical Sales Corp

BODY SEALING COMPOUNDS

American Sealants Co
Dennis Chemical Co
Flintkote Co

GATES ENGINEERING CO

JOHNS-MANVILLE

SHERWIN-WILLIAMS CO

BODY SOLDERS

All-State Welding Alloys Co
Alpha Metals Inc
American Brass Co Waterbury Brass Goods Branch
American Platinum Works
Atomized Materials Co
Belmont Smelting & Refining Works
Bohn Aluminum & Brass Corp
Bunker Hill Co
Division Lead Co
Dunton Co M W
Empire Metal Co
Farrelloy Co
Federated Metals Div
Greenleaf Corp
Handy & Harmon
Hewitt Metals Corp
Kester Solder Co
Lenk Mfg Co

MINNESOTA MINING & MFG CO

National Lead Co
New York Solder Co
North American Smelting Co
Park Chemical Co
Presstite-Keystone Engrg Products Co
Press Work Inc Lead Alloy Products Div
Ren Plastics Inc
River Smelting & Refining Co

SHERWIN-WILLIAMS CO

Swiss Laboratory
Unican Plastics Co Inc

For addresses of manufacturers, see the new special section starting on **page 199**

United American Metals Corp
Wayne Chemical Products Co
Westinghouse Electric Corp
Woodhill Chemical Sales Corp

BODY TOOLS *See Tools, Body*

BODY UNDERCOATINGS *See Undercoatings*

BONDERS, BRAKE LINING *See Brake Bonders*

BONDING COMPOUNDS, BRAKE *See Brake Bonding Compound*

BOOTHS, PAINT SPRAY *See Paint Spray Booths*

BORING BARS (Cylinder)

CEDAR RAPIDS ENGINEERING CO

Evans Reamer & Machine Co
Heald Machine Co
Landis Tool Co
Lucker Mfg Co
Rottler Boring Car Co
St Louis Tool Co
Storm Vulcan Inc

SUNNEN PRODUCTS CO

VAN NORMAN MACHINE CO

Wilson Inc K R

BORING MACHINES *See Bearing Align Borers or Piston Pin Bushing Boring Machines*

BRAKES

BRAKES, Air Systems & Parts

(See also Brake Emergency Systems & Valves)

APEX REINFORCED PLASTICS (plastic tank)

AUTO SPECIALTIES MFG CO

BENDIX PRODUCTS DIV

BENDIX-WESTINGHOUSE AUTOMOTIVE AIR BRAKE CO

BERG MFG & SALES CO

FAWICK BRAKE DIV

HOPPENSTAND MOTORS INC

HYDRO-AIRE DIV CRANE CO

MGM BRAKES INC

MIDLAND ROSS CORP OWOSSO DIV

Power Brake Equipment Co
Sealco Air Brakes Inc

TRANSIT PARTS CO

WAGNER ELECTRIC CORP

WEATHERHEAD CO FORT WAYNE DIV

BRAKES, Electric Systems & Parts

EATON MFG CO

FAWICK BRAKE DIV

Power Brake Equipment Co
Sealco Air Brakes Inc
Warner Brake & Clutch Co

Brakes to Brake Drum Lathes

BRAKES, Foundation

AMERICAN CHAIN & CABLE CO AUTOMOTIVE & AIRCRAFT DIV
AUTO SPECIALTIES MFG CO
BENDIX PRODUCTS DIV
FAWICK BRAKE DIV
Kelsey-Hayes Wheel Co
ROCKWELL STANDARD CORP BRAKE DIV
SHULER AXLE CO
WAGNER ELECTRIC CORP

BRAKES, Hydraulic Systems & Parts

AUTO SPECIALTIES MFG CO
BENDIX PRODUCTS DIV
EIS AUTOMOTIVE CORP
FAWICK BRAKE DIV
Kelsey-Hayes Wheel Co
Martin Co Glenn L
Minnesota Automotive Inc
MORAINE PRODUCTS DIV
SIGNAL-STAT CORP
THERMOID DIV
WAGNER ELECTRIC CORP
WEATHERHEAD CO FORT WAYNE DIV

BRAKES, Parking

AMERICAN CHAIN & CABLE CO AUTOMOTIVE & AIRCRAFT DIV
BENDIX PRODUCTS DIV
BERG MFG & SALES CO
FAWICK BRAKE DIV
HOPPENSTAND MOTORS INC
MGM BRAKES INC
ROCKWELL STANDARD CORP BRAKE DIV
WAGNER ELECTRIC CORP

BRAKES, Vacuum System & Parts

Airtex Products Inc
BENDIX PRODUCTS DIV
EATON MFG CO
EIS AUTOMOTIVE CORP
FAWICK BRAKE DIV
Hetzel Bros
Kelsey-Hayes Wheel Co
MIDLAND ROSS CORP OWOSSO DIV
Power Brake Equipment Co
Velvac Inc

BRAKE ADJUSTERS

BENDIX PRODUCTS DIV
BENDIX-WESTINGHOUSE AUTOMOTIVE AIR BRAKE CO
Brakemaster Corp
EIS AUTOMOTIVE CORP
FAWICK BRAKE DIV
K-D MFG CO
TRANSIT PARTS CO

BRAKE BLEEDERS, Hydraulic

Ammco Tools Inc
Arsco Mfg & Sales Corp
BARRETT EQUIPMENT CO
Bennett-Feragen
Dixie-Jibo Co
EIS AUTOMOTIVE CORP
Grigg Specialty Tools
Manzell Unit
Niehoff & Co C E
RAYBESTOS DIV
SIGNAL-STAT CORP
WAGNER ELECTRIC CORP
Wilco Products Inc
Wilson Inc K R

BRAKE BLOCKS *See Brake Lining*

BRAKE BONDERS

BARRETT EQUIPMENT CO
Fostoria Pressed Steel Corp
Grigg Specialty Tools
Grizzly Brake Div
Huppert Co K H
Lapeer Mfg Co
Miley Co L J
Permafuse Corp
THERMOID DIV
Westbrook Industries Inc

BRAKE BONDING COMPOUNDS

ARMSTRONG CORK CO
BARRETT EQUIPMENT CO
Miley Co L J
Permafuse Corp
RAYBESTOS DIV
Raybestos-Manhattan Inc Equip Sales Div

BRAKE BOOSTERS, VACUUM *See Brake Vacuum Systems*

BRAKE CABLE

AMERICAN CHAIN & CABLE CO AUTOMOTIVE & AIRCRAFT DIV
EIS AUTOMOTIVE CORP
FAWICK BRAKE DIV
Gwilliam Co
Lisle Corp Brake Div
MIDLAND ROSS CORP OWOSSO DIV

For addresses of manufacturers, see the new special section starting on **page 199**

BRAKE, Compression Exhaust

FAWICK BRAKE DIV
Power Brake Equipment Co

BRAKE CYLINDERS *See Brake Hydraulic Systems*

BRAKE CYLINDER CLAMPS

Atmars Tool Co
BARRETT EQUIPMENT CO
EIS AUTOMOTIVE CORP
Lisle Corp Brake Div
Manzell Unit
Murray Corp
SNAP-ON TOOLS CORP
Wilson Inc K R

BRAKE DRUMS

Al-Fin Div
BUDD CO
Campbell Wyant & Cannon Foundry Co
Copperweld Steel Co Glassport Div
Crosby Co
DAYTON STEEL FOUNDRY CO
ERIE MALLEABLE IRON CO AUTOMOTIVE WHEEL DIV
FAWICK BRAKE DIV
Frank Foundries Corp
GUNITE FOUNDRIES CORP
Homan & Co
Kay-Brunner Steel Products, Inc
Kelsey-Hayes Co
Marathon Foundry & Machine Co
MOTOR WHEEL CORP
REYNOLDS MFG CO
Transue & Williams Steel Forging Corp

BRAKE DRUM GAGES

Ammco Tool Inc
BARRETT EQUIPMENT CO
C & G Wheel Puller Co
Grigg Specialty Tools
JOHNS-MANVILLE
Shepard-Thomason Co
VAN NORMAN MACHINE CO

BRAKE DRUM LATHES

Ammco Tool Inc
BARRETT EQUIPMENT CO
Dixie-Jibo Co
Lempco Products Inc
Rush Mfg Co E S
Seneca Falls Machine Co
Shepard-Thomason Co
Star Machine Tool Co
Sundstrand Machine Tool Co
United States Electrical Tool Co
VAN NORMAN MACHINE CO
Van Tool

LET THE NEW MOPAR SONO 4X MUFFLER HELP BRIGHTEN YOUR PROFIT PICTURE

Fleet operators everywhere are getting up to 100% longer muffler life with the new MoPar Sono 4X Muffler. You, too, can brighten your profit picture with this muffler because:

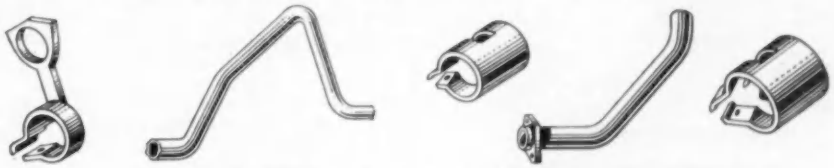
- Zinc coating inside and out reduces down time, prolongs operating life.
- Chrysler-engineered standards mean less installation time, assure perfect operation with other related parts.
- Bigger, sturdier tubes cut wasteful back pressure, give measurably quieter operation.
- Reduced inventory and investment—fewer models now can service the majority of vehicles in your fleet.

No need to look around for adapters. MoPar tailpipes, exhaust pipes, clamps and hangers fit the Sono 4X perfectly. In your passenger car or trucks, install a MoPar muffler for better performance and longer life.

For quick service, call your MoPar Wholesaler or your Plymouth, Dodge, De Soto, Chrysler or Imperial Dealer.

MoPar PARTS AND ACCESSORIES

MoPar Division, Chrysler Motors Corporation
Detroit 31, Michigan



The smartest buyers are sold on the best—MoPar

Brake Emergency Systems to Brake Pedal Depressors

BRAKE EMERGENCY SYSTEMS & VALVES

Airbrake Accessories Inc
BENDIX PRODUCTS DIV
BENDIX-WESTINGHOUSE AUTOMOTIVE AIR BRAKE CO
BERG MFG & SALES CO INC
Collott Owen M
Eveready Emergency Brake Co Inc
FAWICK BRAKE DIV
GEORGE MFG CO
HOPPENSTAND MOTORS INC
HYDRO-AIRE DIV
K & B Mfg Co
Keehn-O Mfg Co
Kelsey-Hayes Wheel Co
MGM BRAKES INC
The McKee Engineering Co
Maxi Corp
MIDLAND-ROSS CORP OWOSSO DIV
Minnesota Automotive Inc
Power Brake Equipment Co
Power Brake Parts Mfg Co
Robinson Engineering & Sales Co
Robinson Products Inc
Safe-T-Brake Valve Co
Sealco Air Brakes Inc
Sweetland Corp
Talco Engineering Co Inc
Vari-Products Co
WAGNER ELECTRIC CORP

BRAKE FLUID

Allube Corp
Barton Products Co
Bell Co
Bowes "Seal Fast" Corp
Chicago Hydraulic Oil Co
Dow Chemical Co
Drew & Co E F Automotive Chemicals Div
du PONT de NEMOURS & CO FINISHES DIV
EIS AUTOMOTIVE CORP
ESSO STANDARD OIL CO
FAWICK BRAKE DIV
FIRESTONE TIRE & RUBBER CO
Gilpak Automotive Products Div
Hollingshead Corp R M
Houghton & Co E F
International Metal Polish Co
Lisle Corp Brake Division
Loreman Products
Master Co
MOBIL OIL CO
MORAINE PRODUCTS DIV
Motor Kool Products Co
Niehoff & Co
Octagon Process Inc
Olin Mathieson Chemical Corp Industrial Chemical Div
Park Chemical Co
Penetone Co
PERMATEX CO
Petroleum Chemicals Co
Porte Mfg Co
Quaker Supreme Chemical Corp
Radiator Specialty Co
RAYBESTOS DIV
SHELL OIL CO
SINCLAIR REFINING CO
Speco Inc
Stanley Co John T
THERMOID DIV
Tumbler Laboratories
UNION CARBIDE CONSUMER PRODUCTS CO DIV
UNITED MOTORS SERVICE
United States Aviex Co
Universal Chemical Div
V-O Mfg Co
WAGNER ELECTRIC CORP
Warehouse Distributing Co
Warwick Laboratories Co
Wilco Co

BRAKE HOSE *See Hose, Air Brake or Hydraulic*

BRAKE HOSE HOLDERS *See Holders, Brake Hose*

BRAKE LEVERS, Parking

BENDIX PRODUCTS DIV
FAWICK BRAKE DIV
Orschelin Brake Lever Mfg Co
Power Brake Equipment Co

BRAKE LININGS & BLOCKS

AMERICAN BRAKEBLOK DIV
Anchor Packing Co
Asbestos Mfg Co
Asbestos Textile Co
Atlas Asbestos Co
BENDIX PRODUCTS DIV
FAWICK BRAKE DIV
FIRESTONE TIRE & RUBBER CO
Gatke Corp
General Metals Powder Co
GREY ROCK DIV
Grizzly Mfg Div
Hope Webbing Co
Inland Mfg Div
JOHNS-MANVILLE
LASCO BRAKE PRODUCTS CORP
MARSHALL-ECLIPSE DIV
Miley Co L J
Molded Materials Div
National Brake Block Co
National Vulcanize Fibre Co
Porter Co H K
Rawhide Products Co
RAYBESTOS DIV
Raybestos-Manhattan Inc Equip Sales Div
Rex-Hide Brake Lining Co
Rossendale Ruboil Co
Russell Mfg Co
SCANDINAVIA BELTING CO
Silver Line Brake Lining Corp
Southern Friction Materials Co
Universal Friction Materials Div
WAGNER ELECTRIC CORP
Warner Electric Brake & Clutch Co (Electric)
WELLINGTON SEARS CO
Wellman Co S K
WORLD BESTOS DIV

For addresses of manufacturers, see the new special section starting on **page 199**

BRAKE LINING CLAMPS

Adjustable Clamp Co
BARRETT EQUIPMENT CO
Cincinnati Tool Co
Grigg Specialty Tools
Miley Co L J
Shepard-Thomason Co
STAR MACHINE & TOOL CO
WAGNER ELECTRIC CORP

BRAKE LINING GAGES

Ammco Tools Inc
BARRETT EQUIPMENT CO
C & G Wheel Puller Co
Miller Mfg Co
Rush Mfg Co
Shepard-Thomason Co
Wilson Inc K R

BRAKE LINING GRINDERS

Ammco Tools Inc
BARRETT EQUIPMENT CO
Evans Reamer & Machine Co
Lempco Products Inc
Rush Mfg Co E S
Shepard-Thomason Co
Wilder Co M D
Wilson Inc K R

BRAKE LINING MACHINES *See Brake Riveting Machines*

BRAKE LINING SHIMS

BARRETT EQUIPMENT CO
Gatke Corp
GREY-ROCK DIV
National Brake Block Co
Perfect Parts Inc
RAYBESTOS DIV
Raybestos-Manhattan Inc Equip Sales Div
WORLD BESTOS DIV

BRAKE LOCKS (Hill Holding)

Diamond-U Products
FAWICK BRAKE DIV
Minnesota Automotive Inc
WAGNER ELECTRIC CORP
Warehouse Distributing Co

BRAKE PEDAL DEPRESSORS

Bennett-Feragen
FAWICK BRAKE DIV
Kent-Moore Organization Inc

Brake Riveting Machines to Bus Interior Cleaners

Manbee Equipment Div
SNAP-ON TOOLS CORP

BRAKE RETARDERS *See Retarders*

BRAKE RIVETING MACHINES

BARRETT EQUIPMENT CO
Chicago Rivet & Machine Co
Dixie-Jibo Co
Grigg Specialty Tools
Grizzly Brake Div
Miller Mfg Co
National Rivet & Mfg Co
Rawhide Products Co
RAYBESTOS DIV
Rex-Hide Brake Lining Co
Shepard-Thomason Co
STAR MACHINE & TOOL CO
Trio Machine & Mfg Co
TRANSIT PARTS CO
Tubular Rivet & Stud Co
Wilson Inc K R

BRAKE SHOES

Asbestos Mfg Co
BENDIX PRODUCTS DIV
FAWICK BRAKE DIV
Fe-adco Corp
GREY-ROCK DIV
Grizzly Mfg Div
Imco Mfg & Sales Co
Milley Co L J
MORAINE PRODUCTS DIV
National Vulcanized Fibre Co
Pick Mfg Co
RAYBESTOS DIV
Raybestos-Manhattan Inc Equip Sales Div
Russell Mfg Co
SHULER AXLE CO
THERMOID DIV
TRANSIT PARTS CO
WAGNER ELECTRIC CORP
WORLD BESTOS DIV

BRAKE SPRING TOOLS *See Tools, Brake Spring*

BRAKE TESTING MACHINES

American Instrument Co
Bear Mfg Co
Bennett-Feragen Inc
Permafuse Corp
WEAVER MFG CO

BRAKE VALVES *See Brake Emergency Systems & Valves*

BRAKE WARNING SIGNALS *See Signals*

BRANDING IRONS, TIRE *See Tire Branding Irons*

BRASS SHIMS *See Shims & Shim Stock*

BRASS TUBING *See Tubing, Brass & Copper*

BREAKAWAY VALVES *See Brake Emergency Systems & Valves*

BREAKERS, CIRCUIT *See Circuit Breakers*

BREAKER POINTS *See Ignition Parts*

BRUSHES, Carbon Removing

ALBERTSON & CO INC
BLACK & DECKER MFG CO
Flour City Brush Co
Guaranteed Parts Co Inc
Herbrand Div
Herold Mfg Co
Kennedy Service Tools Co
Keystone Reamer & Tool Co
Manufacturers Brush Co
Miller Co L B
Millers Falls Co
Milwaukee Brush Mfg Co
Morris Co C W
New Britain Machine Co Hand Tools Div
Osborn Mfg Co
Pittsburgh Plate Glass Co (Brush Div)
Rink-McIlwaine Inc
SNAP-ON TOOLS CORP
Thor Power Tool Co
Wilde Drop Forge & Tool Co
Worcester Brush & Scraper Co

BRUSHES, FOUNTAIN *See Washers, Fountain Brushes & Mops*

BRUSHES, GENERATOR AND STARTER *See Generator & Starter Brushes*

BUFFERS, PORTABLE, ELECTRIC *See Sanders, Portable Electric*

BUFFERS, PORTABLE PNEUMATIC *See Sanders, Portable Pneumatic*

BUMPERS, Dock

DURABLE MAT CO
GOODYEAR TIRE & RUBBER CO
St. Clair Rubber Co
SCHWITZER CORP

BUMPERS, Vehicle

Bath Co Cyril
BINKLEY MFG CO
COLLINS & ASSOCIATES INC
ELECTRIC AUTOLITE CO
Graves Mfg Co
Houdaille Industries Inc Chicago Div
Houdaille Industries Inc Detroit Div
Hutchinson Co
Michigan Bumper Corp
Nash Bros Co
PARISH PRESSED STEEL DIV
Rheem Automotive Co
Rockwell-Standard Corp Bumper Div

BUMPER GUARDS

Brown-Lipe-Chapin Div
Bustin Steel Products Inc
Campbell Co A S
Eaton Mfg Co Stamping Div
Gen Mfg Co
Hamlin Metal Products Co
Jacobs Co F L
Rheem Automotive Co

BURGLAR ALARMS, VEHICLE-MOUNTED *See Alarms, Truck & Cargo Protection*

BUSHINGS *See Bearings & Bushings*

BUSES

BUSES, Commercial

Available Truck Co Div
BOYERTOWN AUTO BODY WORKS INC
CHEVROLET MOTOR DIV
Crown Coach Corp
DIVCO TRUCK DIV
DODGE DIV
Federal Motor Truck Co
Flexible Co
FORD DIV
GMC TRUCK & COACH DIV
Gillig Bros
H H Mfrs
Highway Products Inc
INTERNATIONAL HARVESTER CO
MACK TRUCKS INC
Marmon-Herrington Co Inc
Oneida Products Div
REO DIV
Southern Coach and Body Co
STUDEBAKER DIV
STUDEBAKER - PACKARD CORP (MERCEDES-BENZ)
Superior Coach Corp
WHITE MOTOR CO

BUS DOOR MOTORS

MIDLAND-ROSS CORP OWOSSO DIV
National Pneumatic Co
PORTER CO H K FORGE & FITTINGS DIV

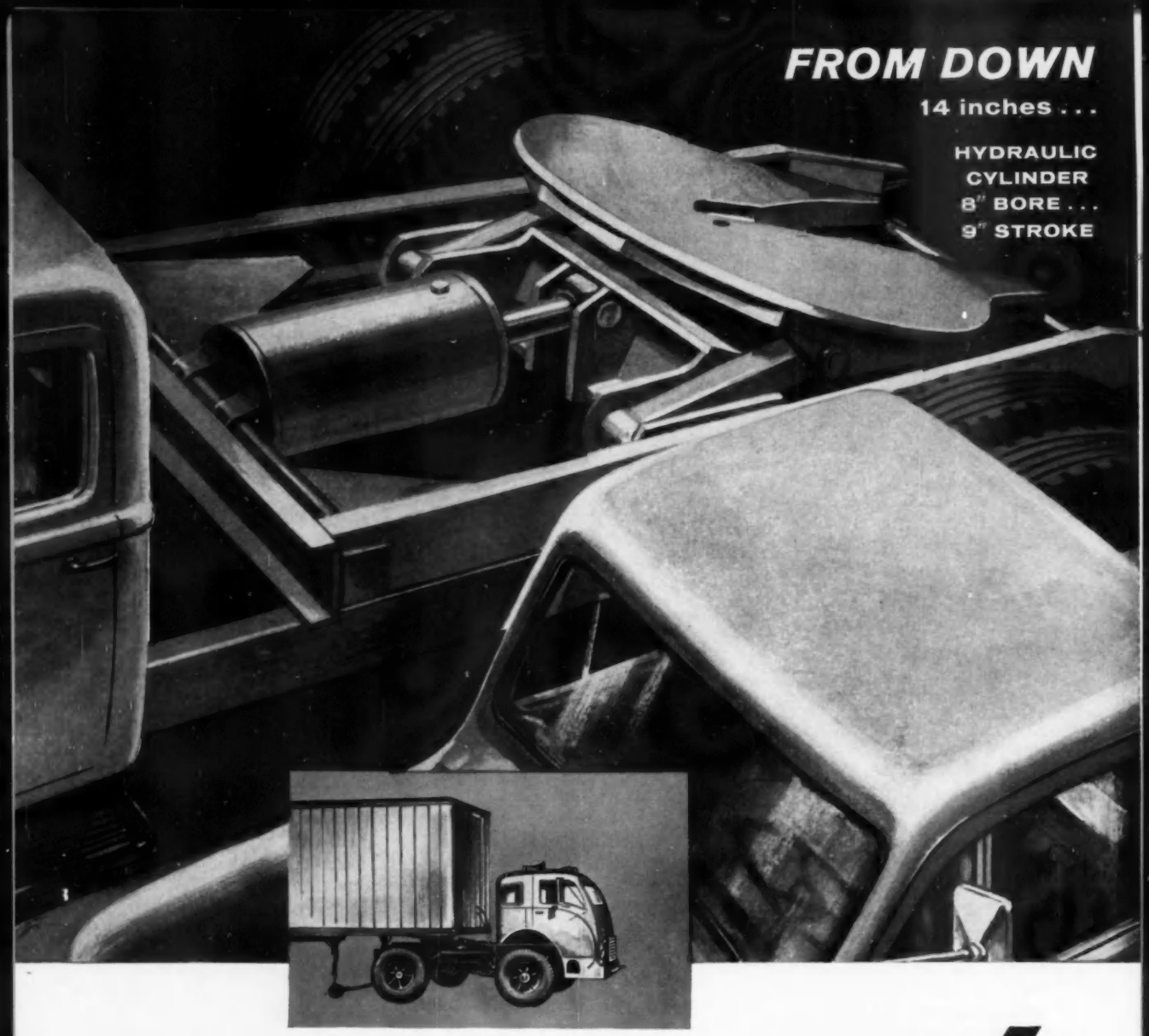
BUS HARDWARE

Attwood Brass Works Inc
Bath Co Cyril
BINKLEY MFG CO
Moore & Co Samuel
PORTER CO H K
Tompkins H S
Troy Sunshade Co

BUS HEATERS *See Heaters, Bus*

BUS INTERIOR CLEANERS

Kelite Corp
MAGNUS CHEMICAL CO INC
ROSS & WHITE CO
Turco Products Inc



NEW! ASF'S

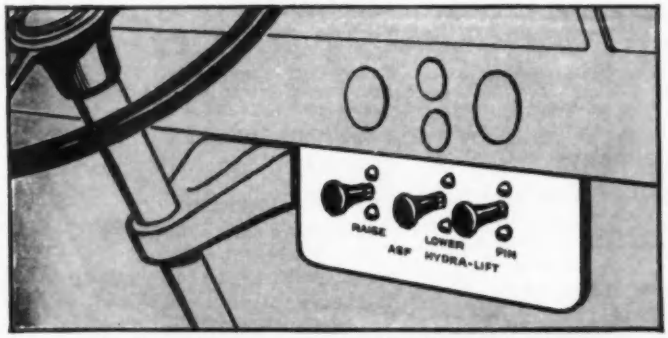
Won't raise or lower accidentally . . .

Here's a new Hydraulic 5th Wheel that offers an ideal answer to faster, more flexible yard operations. The ASF Hydra-Lift raises or lowers automatically—at the touch of the dash control . . . eliminates time-consuming hand operating of trailer landing gear. Ideal for spotting or dumping of liquid and dry trailers.

Hydra-Lift locks automatically without air pressure the instant the kingpin is engaged, but will not release the kingpin until there is sufficient air pressure. Full manual operation is available at all times. The Hydra-Lift is a complete unit, easily installed on tractor. Why not investigate its advantages in your business?

For additional information, contact your ASF or Simplex 5th Wheel Distributor, or write: American Steel Foundries, Hohman & Hoffman, Hammond, Ind.

HYDRA-LIFT



Push button panel on dashboard gives full control of all operations.

Hydra-Lift is built to the high quality standards of

ASF

AMERICAN STEEL FOUNDRIES

Manufacturers of ASF and Simplex 5th Wheels

Cabinets to Circuit Breakers

BUS SEATS *See Seats, Bus*

BUS VENTILATORS *See Ventilators, Bus & Truck*

BUTANE ENGINES *See Engines, LP Gas*

CABINETS, Accessories & Parts

Angle Steel Co
Bay Products Div
BERGER MFG DIV
Bernard Franklin Co
Cemco Industries Inc
Cutler Metal Products Co
Edelmann & Co E
Equipto Div
Frick-Gallagher Mfg Co
Heller & Co W C
Lyon Metal Products Inc
WEATHERHEAD CO

CABLES, BATTERY *See Battery Cables*

CABLES, BRAKE *See Brake Cable*

CABLES, IGNITION *See Ignition Cable*

CABLES, SPEEDOMETER *See Speedometer Cables*

CABLES, WELDING *See Welding Cables*

CABS, Truck

Allen Industrial Products Inc
Aluminum Body Corp
Automotive Industries Corp
Bedell Trailer Co
BROWN TRAILER DIV
BUDD CO THE
Chicago Mfg Co
Couse Mfgs Inc
Crown Steel Products Co
Cutler Metal Products Co
D E K Mfg Co
Kelly Mfg Co
Koenig Iron Works
McLaughlin Body Co
Molded Fiber Glass Companies
MONTPELIER MFG CO
Orrville Body Co
Orrville Metal Specialty Co
Stoughton Cable & Body Co
TIMPTE BROS CO
Truck Cab Mfrs Inc
Youngstown Kitchens Div

CAGES, TIRE INFLATING *See Tire Inflating Guards*

CALIPERS & DIVIDERS

Ames Co B C
Brown & Sharpe Mfg Co
Davis Boring Tool Div
Dixon Inc William
DoAll Co
Keystone Reamer & Tool Co
Lufkin Rule Co
Master Specialty Co
Millers Falls Co
Peck, Stow & Wilcox Co
Rovtar Tool-Die Mfg Co
Starrett Co L S
Swedish Gage Co of America
Union Tool Co
Woodworth Corp C B

CANVAS *See Tarpaulins*

CAPS, Fuel Tank, Locking

Badger Mfg Corp
Berkson Products Inc
EATON MFG CO
Edelmann & Co E Wayne Metalcraft Div
Electroline Mfg Co
Hall Products Div
Norlipp Co
Riley Products Corp
STANT MFG CO INC
Wheel Parts & Mfg Co
Wise Lock Co

CAPS, OIL FILLER *See Oil Filler Caps*

CAPS, RADIATOR *See Radiator Caps*

CAPS, TIRE VALVE *See Tire Valves & Caps*

CARBON MONOXIDE INDICATORS *See Alarms, Carbon Monoxide*

CARBON MONOXIDE REMOVING SYSTEMS *See Ventilators, Exhaust Gas*

CARRIERS, BATTERY *See Battery Boxes*

CARBURETORS, Gasoline

BENDIX PRODUCTS DIV
Carter Carburetor Div
HOLLEY CARBURETOR CO
Marvel-Schebler Products Div
ROCHESTER PRODUCTS DIV
Tillotson Mfg Co
UNITED MOTORS SERVICE
ZENITH CARBURETOR DIV

CARBURETORS, LP Gas

American Liquid Gas Corp
Beam Products Mfg Co
CENTURY GAS EQUIPMENT MARVEL-SCHEBLER PRODUCTS DIV
ENSIGN CARBURETOR CO
J & S Carburetor Co
Zenith Carburetor Div

CARBURETOR CLEANERS *See Cleaning Compounds & Solvents*

CARBURETOR PARTS

BENDIX PRODUCTS DIV
Brisko's Mileage-Saver Inc
Carter Carburetor Div of ACF Industries Inc
Champ-Items Inc
HOLLY CARBURETOR CO
Hygrade Products Div
Neff-Perkins Co
Parts Mfg Co
Precision Automotive Components Co
Preferred Electric & Wire Co
ROCHESTER PRODUCTS DIV
Simmons Mfg Co
Sorensen Mfg Co
STANDARD MOTOR PRODUCTS INC

CARGO CONTAINERS *See Trailers*

CARGO HEATERS *See Heaters, Cargo*

CARGO TIE-DOWN *See Tie-Downs Cargo*

CARRIERS, BATTERY *See Battery Boxes*

CARRIERS, TIRE *See Tire Carrier*

CEMENT, GASKET *See Gasket Compounds*

CHAIN ADJUSTERS, TIRE *See Tire Chain Adjusters*

CHAIN HOISTS *See Hoists, Chain or Cable*

CHAINS, TIMING *See Timing Chains*

CHAINS, TIRE *See Tire Chains*

CHARGERS, BATTERY *See Battery Chargers*

CHASSIS DYNAMOMETERS *See Dynamometers, Chassis*

CHASSIS UNDERCOATINGS *See Undercoatings*

CHOCKS, WHEEL *See Wheel Chocks*

CIRCUIT BREAKERS

Allis-Chalmers Mfg Co
Bulldog Electric Products Co
Carter Parts Co
COLE-HERSEE CO
ELECTRIC AUTOLITE CO
F & B MFG CO
Fasco Industries Inc
General Electric Co Apparatus Sales Div
Heinemann Electric Co
LEECE-NEVILLE CO
Littlefuse Inc
Mallory Electric Corp
Pollak Corp Joseph
Preferred Electric Wire Co
R-B-M Div
REYNOLDS MFG CO
Spencer Div
Square D Co
TUNG-SOL ELECTRIC CO
Underwriters Safety Device Co
Wetts Mfg Corp
WESTINGHOUSE ELECTRIC CORP

CLAMPS, BATTERY HOLD DOWN *See Battery Hold Down Clamps*

For addresses of manufacturers, see the new special section starting on **page 199**

NEW!

fastest extinguishers ...for bus, truck, shop!

LEFT: 2½ pound dry chemical.
RIGHT: 5 pound dry chemical.

Equal eight and sixteen one-qt. carbon tets respectively!

Kidde's new 2½ and 5 pound air pressurized dry chemical extinguishers are the fastest-to-operate on the market today. With these portables there's no inverting, bumping, valves to turn, or locking pins to remove when fire strikes one of your vehicles or shops. Pull the unit from bracket (automatically safety lock releases), aim the nozzle at fire, and press lever. A cloud of fire killing dry chemical envelops the blaze . . . smothers it in seconds.

They're approved by Underwriters' Laboratories for flammable liquid and electrical fires and have top fire extinguishing ratings, equal to eight and sixteen one-quart carbon tet units respectively! And just look at these features.

Note the clear simple operating instructions; note the protected dustproof and moistureproof pressure gauges which show readiness for use; note they can be operated even with a gloved hand; note you can recharge and air pressurize them in your own shop immediately, inexpensively. Truly they're the finest portables available today!

For additional information on these outstanding extinguishers—and the complete Kidde dry chemical and carbon dioxide lines—check your Yellow Pages under Fire Extinguishers for local distributor, or write Kidde today.

See page 11 for list of Kidde Regional Offices across the country.

Kidde

Industrial and Marine Division
Walter Kidde & Company, Inc., 1112 Main St., Belleville 9, N. J.
Walter Kidde & Company of Canada Ltd., Montreal—Toronto—Vancouver

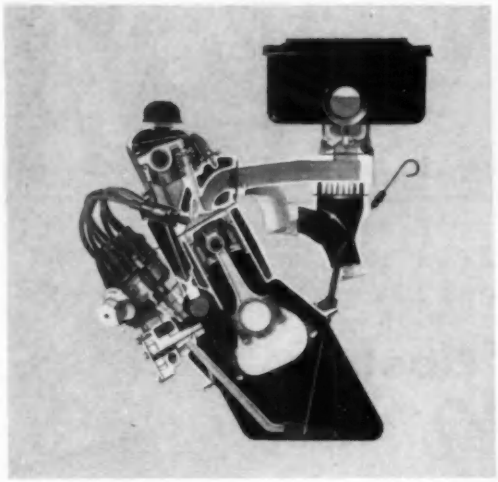
(Advertisement)

BUILT A NEW SOLID WAY, 1960 PLYMOUTH FLEET CARS OFFER YOU GOOD LOOKS, GOOD PERFORMANCE, LOW INITIAL COST, LOW OPERATING COST, NEW LUXURY FEATURES AND A HIGH RESALE VALUE.

Solid new Dura-Quiet Unibody.

Every Plymouth is built a new way with a new kind of unit construction called Dura-Quiet Unibody. It lets you keep your cars longer—means higher resale value when you trade or sell. About 5400 precise welds join sturdy steel of body and frame into one strong, solid, welded unit. This forms the main body section. The engine and the front wheels are a part of the solid auxiliary section which is bolted right *into* the main body section. This permits a degree of exact alignment on the assembly line that was out of the question in automobile factories before.

There's more pure strength per pound of steel, more inside room, where room is needed, and tens of thousands of extra, rugged, quiet miles with this kind of unit construction. Seven different preparatory and protective baths and six special chemical sprays cut body corrosion and maintenance 'way down.



Rugged standard equipment.

Standard equipment on Plymouth Fleet Cars includes the *new inclined 30-D Economy Six Engine*—145 horsepower at 3600 RPM. For economy it rivals sixes with 30 to 70 less horsepower. In fact, at first it'll be hard to believe the outstanding gasoline mileage you'll get from this engine in average city and country stop-and-go driving. This engine is also the best performing six in its class. It is the first inclined engine in any American passenger car. Inclining it lowers the center of gravity, gives a car road-hugging stability. It also allows lots of room to get at parts that require service most often. Optional new Fury V-800, at moderate extra cost, develops 230 horsepower at 4400 RPM. This powerful V-8 engine is the improved version of the engine that won the Mobilgas Economy Run in its class three years in a row.

Other outstanding features include Plymouth's tough, *new Synchro-Silent Manual 3-speed Transmission.* Plymouth offers three Push-Button Transmissions at moderate extra cost: *Push-Button New TorqueFlite-6* (3-speed fully automatic, available with 30-D Economy Six Engine only). *Push-Button TorqueFlite* (3-speed fully automatic). *Push-Button PowerFlite* (2-speed fully automatic).

New Total-Contact Brakes with three-platform staging assure extremely accurate alignment, help eliminate brake noise. Bonded brake lining helps prevent drum scoring damage—also gives longer lining life.

Standard luxury equipment.

Here's a sample of Plymouth's wonderful standard luxury features—a Custom-Positioned Front Seat that allows the driver to have his seat adjusted *six different ways* for maximum comfort. Gives up, down and tilt adjustments, really helps prevent driver fatigue.

Optional luxury equipment.

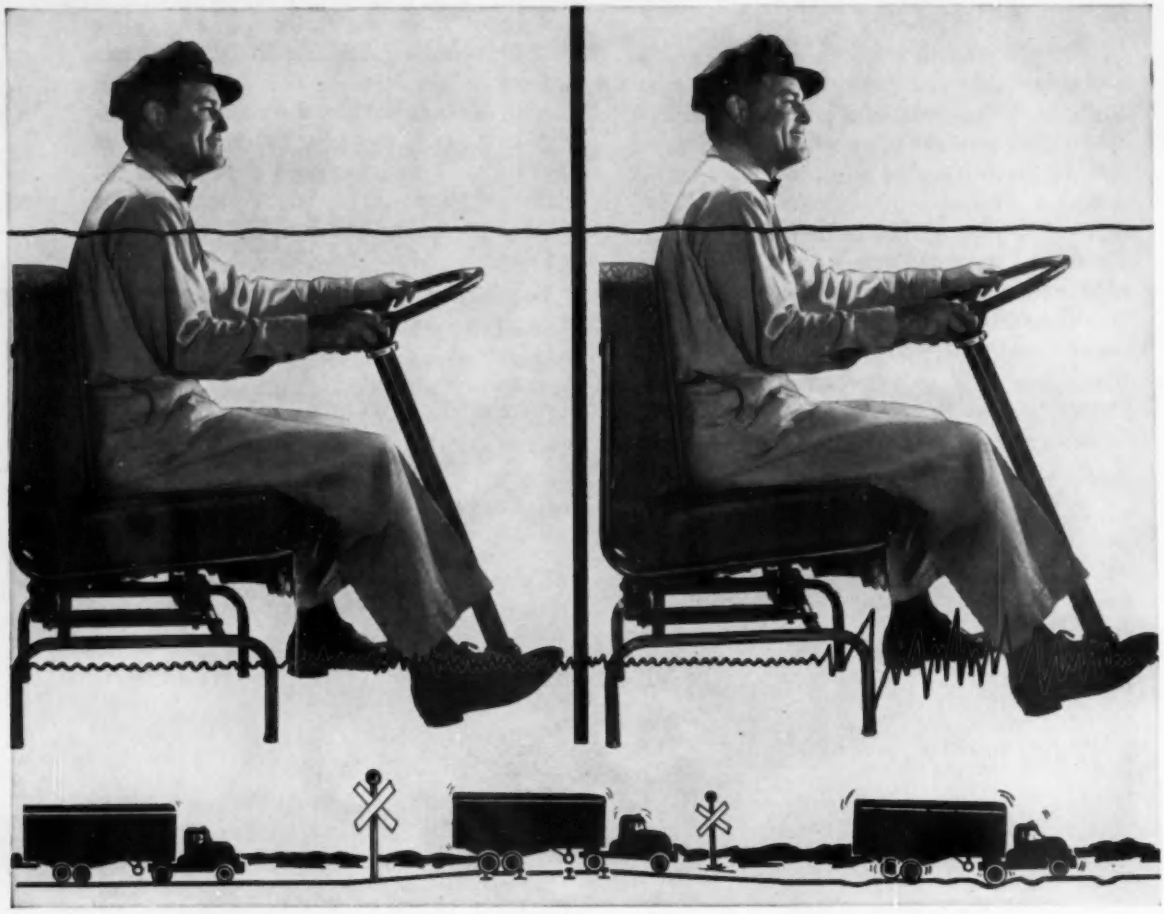
The Safe-T-Matic door locking system is one of the many outstanding luxury accessories available at moderate extra cost. Here's how it works. Every time you start the engine, all doors lock automatically. Front doors can be unlocked by lifting handle, but not rear doors. Should driver step out of car with motor running, hidden control leaves door unlocked.

New models.

You have 24 different new Plymouth models, V-8's and 6's in all body styles, and 13 new colors to choose from. Your local Plymouth dealer will gladly supply you with any further fleet information you may want. Talk with him at your earliest convenience.

A Chrysler-engineered product

SOLID PLYMOUTH 1960



on regular roads or really rough ones . . .

Drivers breeze along on Bostrom's new *shock-absorbing* LEVEL RIDE 80 seats

For a passenger-car ride on roads of all types, see the advantages of this new, improved "Level-Ride" 80 Suspension Seat.

The "Level-Ride" 80 suspension system gives drivers a five-times-better ride. The shock absorber also soaks up severe jolts and jars from extra-rough rides. This shock absorber functions much like the automobile type—particularly to prevent topping and bottoming over chuck holes, rough detours, railroad tracks and bumpy surfaces around loading docks.

Not only do drivers get a smooth, level ride, but they also maintain stability at the wheel and constant control over their trucks.

For added comfort, this new "Level-Ride" 80 Seat features a contoured back. This gives support where it helps . . . further reduces back slap. Seat may also be equipped with armrests.

This new Bostrom "Level-Ride" 80 Contour Seat is available on all makes of new trucks and as a replacement on your present trucks. See your truck dealer or Bostrom distributor.

Shock absorber, added as standard equipment, smooths out jolts and jars from extra-rough rides.

New contour back adds seating comfort, further reduces back slap.

BOSTROM®

BOSTROM CORPORATION
133 West Oregon Street • Milwaukee 4, Wisconsin

(Advertisement)

BOSTROM LEVEL RIDE 80 Suspension Seats are available from these distributors . . . or from your truck dealer

ALABAMA
Truck Equipment, Inc.
Birmingham

ARIZONA
Gear Service & Supply, Bisbee
Auto Safety House, Inc.
Phoenix
Prescott Auto Supply Co.
Prescott
Winslow Auto Supply Co.
Winslow

ARKANSAS
B-Q Parts Co., Fayetteville
Ozburn, Crow & Yantis Co.
Fort Smith, Little Rock
The Automotive, Inc.
Fort Smith

CALIFORNIA
Cooper Auto Parts, Arcata
Bakersfield Truck Parts
Bakersfield
E. E. Richter & Son
Emeryville
Humboldt Supply Co., Eureka
Crook Company, Los Angeles
Harval Truck Equip.
Los Angeles
Lambert Co., Ltd., Los Angeles
Magneto Sales & Service Co.
Los Angeles
Patterson Parts, Inc., Oakland
Moty & Van Dyke, Inc.
Redding
Truck Parts & Equip. Co.
Sacramento
Modern Vehicle Company
San Francisco
Patterson Parts, Inc.
San Francisco
Truck Parts & Equip. Co.
San Francisco
Truck Parts & Equip. Co.
San Jose
Auto Imports, Inc.
Sherman Oaks (L.A.)
A.P.L. Mfg. Co., Stockton

COLORADO
The Winter Weiss Co., Denver

DELAWARE
Brake & Equip. Co., Wilmington

FLORIDA
Rowland Truck Equip.
Jacksonville
Rowland Truck Equip., Miami
Doerr's Trailer & Equip. Co.
Orlando
Home Products Co.
Panama City
Truck Equip. & Supply, Tampa

GEORGIA
William & Harvey Rowland
of Georgia, Inc., Atlanta
The Megahee-Speight Co.
Thomasville

IDAHO
Transport Equipment Co.
Pocatello

ILLINOIS
Acme Parts & Supply Co.
Chicago
Axle & Equip. Sales Co.
Chicago
Central Truck Parts Co., Chicago
Illinois Auto Electric Co.
Chicago
Merit Truck Parts & Wheel Co.
Chicago

ILLINOIS (Cont.)
Mutual Truck Parts, Chicago
Reliable Spring Co., Chicago
Stone Wheel, Inc., Chicago
Sanders Equip. Co., Decatur
C. M. Hoof, Evanston
P & M Accessory Co., Galesburg
Moline Body Co., Moline
Mutual Wheel Co., Moline
Superior Coach Sales, Palatine
Peoria Machine & Parts Co.
Peoria
Sieg Peoria Co., Peoria
Truck Equip. Co., Peoria
Winnebago Auto Wrecking and
Parts Co., Rockford
Capitol Trailer & Body Co.
Springfield

INDIANA
Ernst Truck Equip., Inc.
Fort Wayne
Indiana Wheel & Rim Co., Inc.
Indianapolis
Jordan Equip Co., South Bend
Wm. O. Hensley Truck Parts,
Inc., Terre Haute

IOWA
Rapaport Auto Parts, Inc.
Cedar Rapids
Sidles Co., Centerville
Lehman & Co., Clinton
Horst Motor Supply, Davenport
Des Moines Wheel & Rim
Des Moines
Barron Motor Supply
Iowa City
Breese Co., Inc., Iowa City
Transport Brake & Equip. Co.
Waterloo

KANSAS
Western Mfg. Co., Great Bend
Zeller Brake Service, Salina
Perfection Spring & Equip.
Wichita

KENTUCKY
Dealers Truck Equip. Co.
Louisville

LOUISIANA
Dealers Truck Equip.
Baton Rouge
Dealers Truck Equip.
Shreveport

MAINE
Palmer Spring Co., Portland

MARYLAND
Air Brakes & Control
Baltimore
R. W. Norris & Sons, Inc.
Baltimore
Warner Fruehauf Trailer
Company, Inc., Baltimore
Watson Automotive Equip.
Baltimore
Antietam Equipment Co.
Hagerstown
Brake & Equipment Co., Inc.
Salisbury

MASSACHUSETTS
Perfection Spring & Equipment
Boston
Brake & Electric Sales Corp.
Somerville
Alco Equipment, Inc.
Springfield

MICHIGAN
Arnold Auto Parts Company,
Inc., Coldwater
Pezzani & Reid Equipment Co.
Detroit
Authorized Brake Service, Inc.
Flint
Allied Truck Equipment Co.
Grand Rapids
Wilson's Auto Parts, Hillsdale
Neil's Automotive Service, Inc.
Kalamazoo
A & A Service Co., Manistee
Scientific Brake & Equip. Co.
Saginaw

MINNESOTA
Bemidji Auto Parts Co.
Bemidji
Arrowhead Equip. Co., Inc.
Duluth
Bert's Truck Equip., Inc.
East Grand Forks
Charles Olson & Sons, Inc.
Minneapolis
Amdahl Equip. Co., Pipestone
Behrens Auto Supply Co.
Red Wing
La Hass Corp., St. Paul
Power Brake & Equip., Inc.
St. Paul
The Wheel Service Co.
St. Paul

MISSISSIPPI
Lindsey Distributors, Inc.
Jackson

MISSOURI
Four State Auto Supply, Joplin
Perfection Spring & Equip. Co.
Kansas City
Bilyeu Transport, Ozark
Hayes Automotive, Inc.
Springfield

MONTANA
Automotive Supply Co., Butte

NEBRASKA
Morgan Wheel & Equip. Co.
Omaha

NEVADA
Fallon Motor Supply Co.
Fallon
Truck Parts & Equip. Co.
Reno

NEW JERSEY
Adam Black & Sons
Jersey City
Automotive Safety, Inc.
Newark

NEW MEXICO
Winter-Weiss Co., Albuquerque

NEW YORK
Accord Servicenter, Accord
J. Becker & Sons, Inc., Albany
E. Clayton Smith Auto Supplies
Babylon
Maday Body & Equip, Inc.
Buffalo
Oakwood Motor Corporation
Mount Vernon
Commercial Auto Maintenance,
Inc., New York
Pirson Auto Parts
North Tonawanda
Nyack Auto Parts, Inc., Nyack
Fasino Rochester Power Brake
Center, Rochester
Syracuse Auto Parts, Inc.
Syracuse

NORTH CAROLINA
Brown Equip. & Mfg. Co.
Charlotte
W. R. Echols, Charlotte
Southern Air Brake & Equip.
Co., Greensboro

NORTH DAKOTA
The Wheel Service Co., Fargo
Economy Wholesale Supply
Grand Forks
Jamestown Motor Supply, Inc.
Jamestown
Union Truck Equip., Inc.
Mandan
Seco, Inc., Williston

OHIO
Motor Rim Mfg. Co., Akron
Bridgeport Auto Parts
Bridgeport
Economy Accessories Co.
Cincinnati
Ohio Truck & Parts Co.
Cincinnati
Motor Rim Mfg. Co., Cleveland
Power Brake Serv. & Equip.
Cleveland
Hayes Wheel & Spring Service
Columbus
Smith Auto Parts
East Liverpool
Owners Products, Inc., Galion
Knauer Supply Co., Toledo
Middlekauff, Inc., Toledo
Toledo Auto & Truck Supply
Toledo
Bennett Brake Service Inc.
Youngstown

OKLAHOMA
Parker Equip. Co., Muskogee
Perfection Spring & Equip. Co.
Oklahoma City
Auto Electric Co., Ponca City
Truck Parts & Equip. Co.
Tulsa

OREGON
Hydra-lines, Inc., Portland

PENNSYLVANIA
Allentown Brake & Wheel Serv.
Allentown
Brake, Drum & Equip. Co.
Clearfield
Grove City Motor Parts
Grove City
Standard Wheel & Rim Co.
Harrisburg
Transport Equip. Co.
Philadelphia
Ateco Equip. Co., Pittsburgh
Motive Parts Co., Pittsburgh
Ost & Ost, Pottsville
Motive Parts Co., Rochester

SOUTH CAROLINA
Carolina Parts & Equipment Co.
Hampton

SOUTH DAKOTA
Roy F. Drake Body & Equip.
Sioux Falls
Schweigers, Inc., Watertown

TENNESSEE
Motor Parts Corp., Cleveland
M & M Supply Co., Greenville
O. G. Hughes & Sons, Inc.
Knoxville
Dealers Truckstell Sales, Inc.
Memphis
Memphis Truck Equip. Co.
Memphis
Ozburn, Crow & Yantis Co.
Memphis
Keith-Simmons Co., Inc.
Nashville

TEXAS
Truckers Equip., Inc.
Corpus Christi

TEXAS (Cont.)
Fleet Equip Co., Dallas
Motor Truck Equip. Corp.
Dallas
Hobbs Trailer Sales Co.
El Paso
Motor Truck Equip. Corp.
Fort Worth
Dewey & Hendrix Auto Parts
Galena Park
Ace Distributing Co., Houston
Odessa Spring & Axle, Odessa
Adams Truck Co., San Antonio
Commercial Body Corp.
San Antonio
Motor Truck Equip. Corp.
Wichita Falls

UTAH
Lang Company, Salt Lake City
Transport Equipment Center
Salt Lake City

VIRGINIA
Watson Automotive Equip. Co.
Arlington
Newcomb Auto Parts, Inc.
Farmville
A. Wrenn & Sons, Inc.
Norfolk
Standard Parts Corp.
Richmond

WASHINGTON
Sound Truck Equip. Co.
Seattle

WEST VIRGINIA
Baker Equipment Engineering
Co., Inc., Charleston
Baker Equip. Eng. Co., Inc.
Huntington

WISCONSIN
Automotive Supply Co., Inc.
Appleton
Olson Trailer & Body Builders
Green Bay
Superior Coach Sales
Hales Corners (Milwaukee)
Gordon Auto Replacement, Inc.
Kenosha
Motor Parts & Equip., Inc.
La Crosse
Eggimann Motor & Equip.
Sales, Inc., Madison
Northern Auto Supply Co.
Marshfield, Stevens Point
Bostrom Auto Upholstery
Milwaukee
Brake & Equip. Co., Milwaukee
Mutual Truck Parts, Milwaukee
Neuman Automotive Serv.
Superior

WYOMING
Wyoming Automotive Co.
Casper

HAWAII
Hilo Equip. Mfg. Co., Hilo
Melim Serv. & Supp. Co.
Limited, Honolulu

CANADA
Richler Automotive Corp.
Montreal
Oakville Automotive Supply,
Ltd., Oakville, Ontario
Malmberg Auto Serv.
Ottawa, Ontario
Northern Magneto, Ltd.
Prince George, B. C.
Wheel & Rim Co. of Canada,
Ltd., Toronto, Ontario
Byers Truck & Trailer Equip.
Ltd., Windsor, Ontario

"LEVEL-RIDE" 80 Seats are also available on new trucks from all these truck manufacturers and their dealers: Autocar, Brockway, Cook, Chevrolet, Dart, Diamond T, Dodge, Duplex, Federal, Ford, FWD, GMC, Hayes, Hendrickson, IHC, Kenworth, Leyland, Mack, Oshkosh, Peterbilt, Reo, Walter, Ward LaFrance, White, White Freightliner. For a passenger-car ride, install "LEVEL-RIDE" 80 Suspension Seats.

BOSTROM CORPORATION • 133 West Oregon Street, Milwaukee 4, Wisconsin

BOSTROM®

Cleaning Compounds to Cleaning Machines

CLAMPS, BRAKE LINING *See Brake Lining Clamps*

CLAMPS, BRAKE CYLINDER, HYDRAULIC *See Brake Cylinder Clamps*

CLAMPS, HOSE *See Hose Clamps*

CLEANERS, AIR *See Air Cleaners*

CLEANERS, BUS INTERIOR *See Bus Interior Cleaners*

CLEANERS, RADIATOR *See Radiator Cleaners Chemical or Radiator & Block Flushers*

CLEANERS, SPARK PLUG *See Spark Plug Cleaners*

CLEANING COMPOUNDS & SOLVENTS

Acme Quality Paints Inc
Acrolite Inc
Advance Century Mfg Co
Aldridge Chemical Oils Inc
Allube Corp
Amchem Products Inc
Anti-Rust Corp
Atomix Inc
Atomized Materials Co
Balcrank Inc
Bardahl Mfg Corp
Barr & Co W M
The Bares Co
Barton Products Co
Bell Co

BENDIX PRODUCTS DIV

Blakeslee & Co G S
Bostwick Laboratories Inc
Brulin & Co Inc
Burchanan Chemical Co C G
Cannon Chemical Co
Calcine Chemical Co
Carey Mfg Co
Cee-Bee Chemical Co
Celco Corp

CHOLDUN MFG CO

CIRCO EQUIPMENT CO

Cities Service Oil Co

CLAYTON MFG CO

Collinite Chemical Co
Colonial Alloys Co
Colorgio Products Inc

COMMERCIAL SOLVENTS CORP

Cooper Co D C
Cowles Chemical Co
Cross Chemical Co
Crystal Soap & Chemical Co
Dacar Chemical Products Co
Dearborn Chemical Co
Delco Appliance Div
Delta Chemical Co
Detrex Chemical Industries Inc

DITZLER COLOR DIV

Diversey Corp
Dow Chemical Co
Drew & Co E F
Du Bois Co

DU PONT DE NEMOURS & CO E I CHEMICAL SPECIALTIES DIV

du Pont de Nemours & Co., E. I. Electrochemicals Dept
du Pont de Nemours & Co., E. I. Grasselli Chemical Dept

DURKEE-ATWOOD CO

Eagle-Picher Co
Enthone Inc

ESSO STANDARD OIL

Ewing Mfg Co
Farrelloy Co
Fischer Industries Inc
Flor-Dry Co
Ford Div J B
Gerlach Co A E
Gojer Inc
Graymills Corp

GULF OIL CORP

Gumout Div

GUNK LABORATORIES INC

Hanson-Van Winkle-Munning Co
Harley Soap Co
Heet Div
Hollingshead Co R M
Hooker Electrochemical Corp
Houghton & Co E F

HYPRESSURE JENNY DIV

Independence Chemical Products Co
Industrial Chemical Products Co
International Metal Polish Co
Jarrett Co Cecil H
Jones Products Inc
Kelite Corp
Kitson Inc Arthur H
Kleer-Flo Co
Klem Chemicals Inc
Krembs & Co
Krylon Inc
L & R Mfg Co
Lake Erie Mfg Co
Las-Stik Mfg Co
Lavo Co of America
Lord Chemical Co
Luboid Co
Lubri-Loy Co
Lusk Co C F
Mac's Super Gloss Co

MAGNUS CHEMICAL CO

Magnuson Products Corp
Mal Mfg Co
MarPro Corp
Martindale Electric Co

MASTER FLEET WASHER DIV

Master Specialty Co
Miller Mfg Co
Minerals & Chemicals Corp of America
Mitchell-Bradford Chemical Co

MOBIL OIL CO

Motor Kool Products Co
Multi-Clean Products Inc
Murphy-Phoenix Co Div
Narda Ultrasonics Corp
Nileco Products Inc
Northwest Chemical Co

NUTMEG CHEMICAL CO MOTIVE SPECIALTIES DIV

OAKITE PRODUCTS INC

Octagon Process Inc
Oil-Dri Corp of America
Oronite Chemical Co
Panther Chemical Co
Park Chemical Co
Parker Rust Proof Co
Peck's Products Co
Penetone Co
Pennsalt Chemicals Corp
Penray Co
Permacel Co

PERMATEX CO INC

Permo Products Co
Petroleum Solvents Corp
Philadelphia Quartz Co

PHILLIPS MFG CO

Plastikote Inc

PRACTICAL MFG CO

Puritan Co
Pyroil Co
Quick Charge Inc
N Ransohoff Inc
James H Rhodes & Co

ROSS AND WHITE CO

Rossaul Co
Rust Master Chemical Corp
Sellers Injector Corp
Service Industries
Service Supply Co
Shaler Co

SHELL OIL CO

Shur-Gloss Mfg Co
Speco Inc
Speedi-Dry Corp
Stain-Ox Co

STANDARD OIL OF CALIF WESTERN OPERATIONS INC

Stanley Co John T
Stewart-Hall Chemical Corp
Sun Oil Co
Tudor Chemical Specialties Inc
Tumbler Laboratories J A
Turco Products Inc
Tysol Products Div
U S Chemical Supply Co

UNION CARBIDE CONSUMER PRODUCTS CO DIV

United States Aviex Co
V-O Mfg Co
Virginia-Carolina Chemical Corp
Waltham Precision Instrument Co
Warehouse Distributing Co
Watts-Wagner Co
Waverly Petroleum Products Co
White & Bagley Co
Wilbur and Williams Co
Wilco Co
Wolfe-Kote Co
Woodhill Chemical Sales Corp
Wyandotte Chemicals Corp
Wynn Oil Co
"X" Laboratories Inc
Zecol Inc

CLEANING MACHINES (Including Pressure & Steam)

Aeroil Products Co
John Bean Div

CIRCO EQUIPMENT CO

CLAYTON MFG CO

Cooper Co D C
D & M Products Inc
Detrex Chemical Industries Inc
Dutton-Lainson Co Mfg Div
Eclipse Fuel Engineering Co
Ewing Mfg Co
General Equipment Mfg Co
Grayson Tool Co

GUNK LABORATORIES INC

Hydro-Air Cleaning Systems Inc
Homestead Valve Mfg Co

Cleaning Tanks to Clutch Throwout Bearings

HYPRESSURE JENNY DIV
IMPERIAL BRASS MFG CO
Kelite Corp
King Co Inc
MAGNUS CHEMICAL CO
MALSBARY MFG CO
OAKITE PRODUCTS INC
PANTEX MFG CORP STEAM GENERATOR DIV
PRACTICAL MFG CO
Quick Charge Div
ROSS & WHITE CO
Sellers Injector Corp
Siebring Mfg Co
SPRAGUE DEVICES INC
Storm-Vulcan Inc
Thompson Products Inc
Turbo Machine Co Div
Turco Products Inc
Tysol Products Div
Vapor Heating Corp

CLEANING TANKS

Acoustica Associates Inc
Aeroll Products Co
A L C CO
Alvey-Ferguson Co
Bacon Vulcanizer Mfg Co
Barrett Co Leon J
BARRETT EQUIPMENT CO
Blakeslee & Co G S
Cincinnati Cleaning & Finishing Machinery Co
CIRCO EQUIPMENT CO
Cooper Co D C
Curtiss-Wright Corp Industrial & Scientific Products Div
Detrex Chemical Industries Inc
Drying Systems Inc
Eclipse Fuel Engineering Co
Good-All Electric Mfg Co
Graymills Corp
Hanson-Van Winkle-Munning Co
International Conveyor & Washer Corp
J P Mfg Co
Kelite Corp
L & R Mfg Co
MAGNUS CHEMICAL CO
Mahon Co R C
Metalwash Machinery Corp
Newcomb-Detroit Co
Peters-Dalton Inc
PHILLIPS MFG CO
Pioneer-Central Div
PRACTICAL MFG CO
Protectoseal Co
Ransohoff Inc
Schmieg Industries Inc
Simplicity Engrg Co
Stevens Inc Frederic B
Storm-Vulcan Inc
Turco Products Inc
U S Galvanizing & Plating Equipment Corp
Wilson Inc K R
Winona Tool Mfg Co

CLEARANCE LAMPS *See Lamps*
CLIPS, SPRING *See Spring Clips*
CLOTH, COATED FABRIC *See Tarpaulins*

CLUTCHES

CLUTCHES

Accurate Re-Nu Clutch Div
Borg & Beck Div
DANA CORP
Inland Mfg Div
LIPE-ROLLWAY CORP
Long Mfg Div
ROCKFORD CLUTCH DIV
Warner Electric Brake & Clutch Co
Wellman Co S K

CLUTCH ALIGNMENT TOOLS

Accurate Re-Nu Clutch Div
Cal-Van Machine Products Inc
Cornwell Quality Tools Co
Kaywood Products Corp
Kent-Moore Organization Inc
LIPE-ROLLWAY CORP
Manzel Unit
National Machine & Tool Co
Owatonna Tool Co
Rinck-McIlwaine Inc
Rovtar Tool Die Mfg Co
Zoerman-Clark Mfg Co

CLUTCH FACINGS

Accurate Re-Nu Clutch Div
AMERICAN BRAKEBLOK DIV
ARMSTRONG CORK CO INDUSTRIAL DIV
Asbestos Mfg Co E
Atlas Asbestos Co
Gatke Corp
GREY-ROCK DIV
LIPE-ROLLWAY CORP
JOHNS-MANVILLE
MARSHALL ECLIPSE DIV
MORAINE PRODUCTS DIV
National Brake Block Co
RAYBESTOS DIV
RAYBESTOS-MANHATTAN INC EQUIPMENT SALES DIV
Rex-Hide Brake Lining Co
Russell Mfg Co
SCANDINAVIA BELTING CO
THERMOID DIV
Universal Friction Materials Div
Wellman Co S K
WORLD BESTOS DIV

CLUTCH PARTS

Accurate Re-Nu Clutch Div
Circle Z
DANA CORPORATION
DORMAN PRODUCTS INC
Elgin Machine Works Inc
Lempco Products Inc
LIPE-ROLLWAY CORP
Parts Mfg Co
Perfection Gear Co
ROCKFORD CLUTCH DIV
Townsend Co Engineered Fasteners Div
Wheel Parts & Mfg Co

CLUTCH PRESSURE PLATES

Accurate Re-Nu Clutch Div
Borg & Beck Div
DANA CORP
Inland Mfg Div
LIPE-ROLLWAY CORP
Long Mfg Div
Perfection Gear Co
ROCKFORD CLUTCH DIV
Warner Electric Brake & Clutch Co
Wellman Co S K

CLUTCH REBUILDING MACHINES

Bear Mfg Co
Borg-Warner Service Parts Co
Miller Tool & Mfg Co
Perfection Gear Co
ROCKFORD CLUTCH DIV
VAN NORMAN CO
Westbrook Industries Inc

CLUTCH SPRING TESTERS *See Testers, Valve & Clutch Spring*

CLUTCH, Throwout Bearings

Aetna Ball & Roller Bearings Co Div
Andrew Parts Mfg Co
Automotive Thrust Bearings Corp
BEARINGS CO OF AMERICA DIV
DORMAN PRODUCTS INC
FEDERAL-MOGUL SERVICE DIV OF FEDERAL-MOGUL-BOWER BEARINGS INC
Green Ball Bearing Co
L & S Bearing Co
Lempco Products Inc
Nice Ball Bearing Co
Perfection Gear Co
Preferred Electric Wire Co
Pure Carbon Co
ROCKFORD CLUTCH DIV
SKF Industries Inc
Schatz Mfg Co

COATINGS, PROTECTIVE (for body leaks) *See Body Sealing Compounds*
COCKS, PET, DRAIN *See Drain Cocks*
COILS, IGNITION *See Ignition Coil*
COOLING SYSTEM ITEMS *See Radiator Items*

For addresses of manufacturers, see the new special section starting on **page 199**

Compounds to Connectors

COMBUSTION ANALYZERS *See Analyzers, Combustion*

COMMUTATOR LATHES *See Lathes Commutator*

COMPOUNDS, BATTERY TERMINAL ANTI-CORROSIVE *See Battery Terminal Compounds*

COMPOUNDS, BODY REPAIR *See Body Repair Compounds*

COMPOUNDS, BODY SEALING *See Body Sealing Compounds*

COMPOUNDS, BRAKE BONDING *See Brake Bonding Compounds*

COMPOUNDS, Crankcase, Sludge Removing

Alox Corp
Alsol Products Co.
Celco Corp
Decar Chemical Products Co

DU PONT DE NEMOURS & CO E I FINISHES DIV

Emerol Mfg Co
Gerlach Co E A

GUNK LABORATORIES INC

HASTINGS MFG CO

Kano Labs
Kelite Corp.
Lubaid Co

MAGNUS CHEMICAL CO

National Refining Co

OAKITE PRODUCTS INC

Petroleum Solvents Corp
Randall Products Mfg. Co
Rust Master Chemical Corp
V-O Mfg Co
White & Bagley Co

COMPOUNDS, DEGREASING *See Cleaning Compounds & Solvents*

COMPOUNDS, GASKET *See Gasket Compounds*

COMPOUNDS, Metal Testing for Flaws

Kelite Corp

MAGNAFLUX CORP

Turco Products Inc

COMPOUNDS, RADIATOR *See Radiator Sealing Compounds or Radiator Rust Inhibitors*

COMPOUNDS, Rubbing & Polishing

Acme Quality Paints Inc

BLACK & DECKER MFG CO

Colorgio Products Inc

DITZLER COLOR DIV

DU PONT DE NEMOURS & CO E I FINISHES DIV

Glidden Co
Glisten Co
Goodison Mfg Co
Hollingshead Corp R M
International Metal Polish Co
Ken-nite Co
Lee Polish Mfg Co
Metalglas Laboratories Inc
Park Chemical Co

SHERWIN-WILLIAMS CO

Simoniz Co
Speco Inc
Stain-Ox Co
Swavely Chemical & Varnish Works
Tumbler Laboratories J A

UNION CARBIDE CONSUMER PRODUCTS CO DIV

Warehouse Distributors Co
Wilson-Imperial Co

COMPOUNDS, TIRE REPAIR *See Tire Repair Compounds*

COMPOUNDS, VALVE GRINDING *See Valve Grinding Compound*

COMPOUNDS, VEHICLE WASHING *See Cleanings & Compounds & Solvents*

COMPOUNDS, WELDING *See Welding Compounds*

COMPOUNDS, WINDSHIELD SEALING *See Windshield Sealing Compound*

COMPRESSION BRAKES, EXHAUST *See Brake, Compression Exhaust*

COMPRESSION GAGES

Acme Air Appliance Co
Allen Electric & Equipment Co
Arsco Mfg & Sales Corp
Auto-Test Inc

BACHARACH INDUSTRIAL INSTRUMENT CO

Cornwall Quality Tools Co
Electric Products Co
Fisher Products Corp A R
G M Co Mfg Inc
Griswold Mfg Co
Hanson Co Harvey E

HASTINGS MFG CO

Kal-Equip Co
Kennedy Service Tools Co
Kiene Diesel Accessories Inc
King Electric Equipment Co
Mack Products Co
Miller Mfg Co
Nasa Tool Mfg Corp
National Machine & Tool Co
Niehoff & Co
Rinck-McIlwaine Inc
Schauer Mfg Corp

SNAP-ON TOOLS CORP

Sun Electric Corp
United States Gauge Div
Weidenhoff Corp

For addresses of manufacturers, see the new special section starting on **page 199**

COMPRESSORS, AIR *See Air Compressors*

CONDENSERS, IGNITION *See Ignition Parts*

CONDENSER TESTERS *See Ignition Condenser Testers*

CONDITIONERS, AIR *See Air Conditioners*

CONNECTING RODS

ALUMINUM CO OF AMERICA

Bohn Aluminum & Brass Corp
Canton Drop Forging & Mfg Co

CONTINENTAL MOTORS CORP

GILLETT & EATON INC

McQUAY-NORRIS MFG CO

Niagara Motors Corp
Park Drop Forge Co
Parks Engineering Inc
Pioneer Motor Bearing Co
Thompson Products Inc
Toledo Steel Products Div

CONNECTING ROD ALIGNING JIGS

Ammco Tools Inc
Kent-Moore Organization Inc
Lee Co K O
Lisle Corp
Miller Mfg Co
Shephard-Thomason Co
Stevens Walden Inc
Storm-Vulcan Inc

SUNNEN PRODUCTS CO

Wilson Inc K R

CONNECTING ROD BEARINGS *See Bearings, Crankshaft & Camshaft*

CONNECTING ROD REAMERS *See Reamers, Power Drive*

CONNECTORS, Trailer Electric

Acme Mfg Co
Atwood Vacuum Co
Austin Trailer Equipment Co

AUTAC INC

BERG MFG & SALES CO

Berluti Mfg Co
Burch Corp
Campbell Co H D

COLE-HERSEE CO

Colson Corp
Connecticut Telephone & Electric Corp
Dalton Foundries Inc
Draw-Tite Co
Dutton-Lainson Co Mfg Div
Elkhart Welding & Boiler Works Inc
Foreman Mfg Co
Fulton Co
Griffin Lamp Co
Gross-Given Mfg Co
Hammer Blow Tool Co

HOLLAND HITCH CO

Ideal Mfg Co
Independent Iron Works Inc

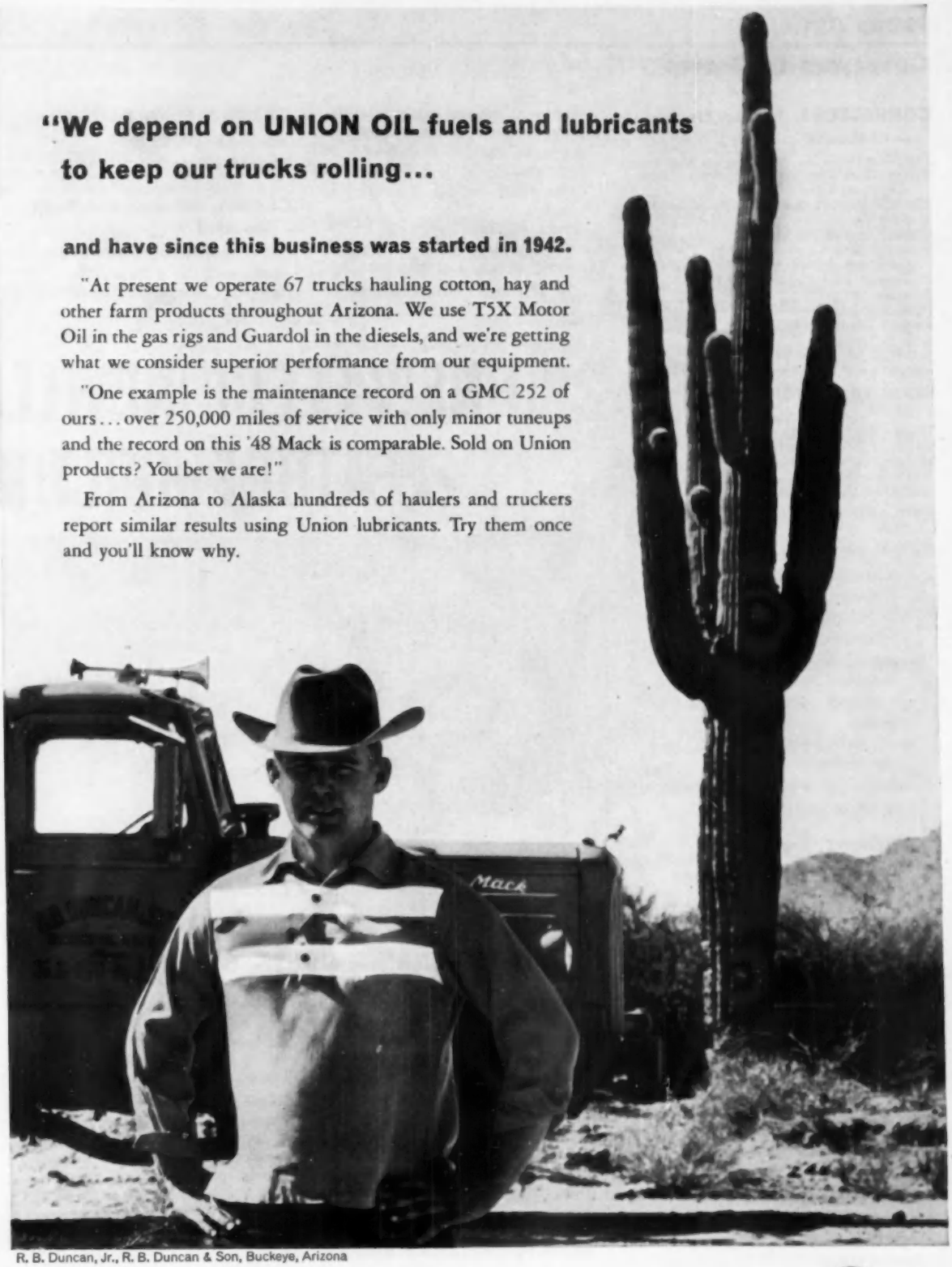
"We depend on UNION OIL fuels and lubricants to keep our trucks rolling...

and have since this business was started in 1942.

"At present we operate 67 trucks hauling cotton, hay and other farm products throughout Arizona. We use T5X Motor Oil in the gas rigs and Guardol in the diesels, and we're getting what we consider superior performance from our equipment.

"One example is the maintenance record on a GMC 252 of ours... over 250,000 miles of service with only minor tuneups and the record on this '48 Mack is comparable. Sold on Union products? You bet we are!"

From Arizona to Alaska hundreds of haulers and truckers report similar results using Union lubricants. Try them once and you'll know why.



R. B. Duncan, Jr., R. B. Duncan & Son, Buckeye, Arizona

UNION OIL COMPANY OF CALIFORNIA 76

UNION OIL CENTER, LOS ANGELES 17, CALIFORNIA, U.S.A.

Conveyors to Cranes

CONNECTORS, Trailer Electric —continued

Joy Mfg Co
Kliegl Bros Universal Electric Stage Lighting Co
McCabe-Powers Auto Body Co
McKay Co
Marvel Industries Inc
Mercury Mfg Corp
Pollak Corp Joseph
Preferred Electric & Wire Co
Premier Mfg Co
Pyle-National Co
Rapids Equipment Co
S & M Lamp Co
Scintilla Magneto Div
Slimp Axle Products

STANDARD MOTOR PRODUCTS INC

Utility Tool & Body Co
Valley Tow-Rite Industries
Weber Trailer & Mfg Co
Wells Inc Martin
Whitaker Cable Corp

WILLARD STORAGE BATTERY DIV

Wood-Williams-Capp Mfg Co

CONNECTORS, WIRE *See Wire Terminals*

CONTACT POINTS *See Ignition Parts*

CONTAINERS, CARGO *See Trailers*

CONTROLS, ENGINE CUT-OFF *See Switches, Ignition Cut Off*

CONVERTERS, AXLE DOLLIES *See Axle Dollies*

CONVERTERS, TORQUE *See Torque Converters*

COOLERS, AIR *See Air Coolers*

COOLERS, OIL *See Oil Coolers*

CONVEYORS, Truck Body
(advertiser only)

H S WATSON CO

COOLING SYSTEM FILTER

American Octanator Corp
FRAM CORP
Perry Filter Div

COOLING SYSTEM FLUSHER

Aero-Motive Mfg Co
CHOLDUN MFG CORP
du Pont de Nemours & Co E I Grasselli Chemical Dept
HYPRESSURE JENNY DIV
Kent-Moore Organization Inc
Liquid Veneer Corp
Sodrin Corp
U S Chemical & Supply Co

COPPER SHIMS *See Shims & Shim Stock*

COPPER TUBING *See Tubing, Copper*

CORD, TIRE *See Tire Cords*

CORROSION PREVENTIVE *See Radiator Rust Inhibitors*

COUPLERS, TRAILER ELECTRICAL *See Connectors, Trailer Electric*

COUPLERS, TRAILER *See Trailer Hitches*

COVERINGS FLOOR *See Floor Covering*

COVERS, RADIATOR GRILLE *See Radiator Covers (Fabric)*

COVERS, TRUCK AND TRAILERS *See Tarpaulins*

CRACK & FLAW DETECTORS

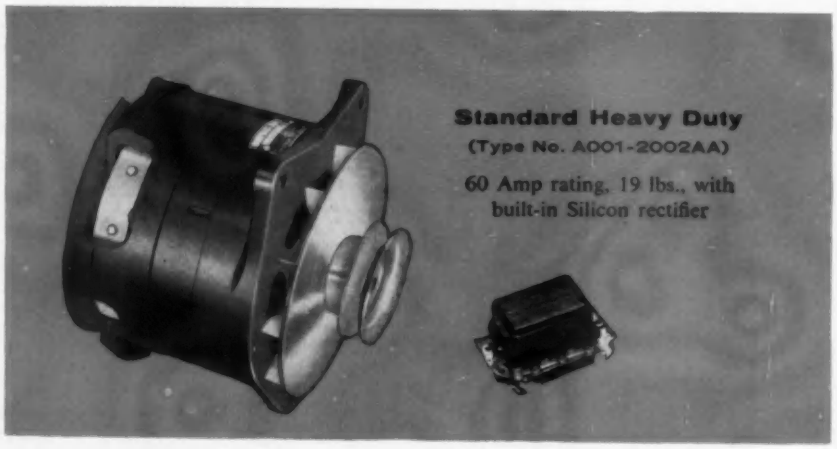
MAGNAFLUX CORP
Turco Products Inc

CRANES, Crawler and Truck Mounted

(See also Hoists, Chain & Cable)

American Hoist & Derrick Co
Automatic Transportation Co Div

NEW LEECE-NEVILLE FEATURE BUILT-IN



NEW 2-PIECE SYSTEMS PERFORM BETTER, CUT MAINTENANCE COSTS, CONSERVE SPACE

Silicon cell rectifiers, now *built-in* as an integral part of the alternator, have eliminated the separately mounted Selenium rectifier in new L-N Alternator-Generator Systems. The resulting benefits to you are as follows:

Better Performance—curb idle current increased 42%, current at city and highway speeds increased 20%, greater heat resistance, and longer life (Std. H.D.).

Lower Maintenance Costs—expense of mounting separate Selenium rectifiers is eliminated. Silicon cells (6 to a rectifier) can be replaced individually at far less cost than a complete Selenium rectifier.

Space Savings—new 2-piece systems require less space under the hood. Cost is comparable to previous 3-piece systems. Low-cost kits for converting your present 3-piece systems to new 2-piece systems also available.

You can specify Leece-Neville systems as factory-installed special equipment on more than

90% of all new trucks

Cranes to Crankshafts

BLACKHAWK MFG CO AUTOMOTIVE DIV
Daybrook Hydraulic Div
Hanson Clutch & Machinery Co
Hartman Metal Fabricators Inc
HENDRICKSON MFG CO
Hyster Co
Link-Belt Speeder Corp
Memco
RUGER EQUIPMENT INC
Schield Bantam Co
Silent Hoist & Crane Co
Stratton Equipment Co
WATSON CO H S

CRANES, Monorail

American Monorail Co
Cleveland Crane & Engrg Co
Detroit Hoist & Machine Co
HARNISCHFEGER CORP
Industrial Crane & Hoist Ingersoll Products Div
Louden Machinery Co
Michigan Crane & Conveyor Co
Northern Engineering Wks

CRANES, PORTABLE *See Hoists, Chain & Cable*

CRANES, Service Truck or Shop

All State Engineering Co
AUTO SPECIALTIES MFG CO
Auto Truck Steel Body Co
BLACKHAWK MFG CO AUTOMOTIVE DIV
Burtchaell Heating Co
Cam Tool Co
Cemco Industries Inc
COLLINS & ASSOCIATES INC
Daybrook Hydraulic Div
Gar Wood Industries Inc
Guibert Steel Co
Holmes Co Ernest
Howell Industrial Truck Co
Manley Div
Modern Hydraulics Inc
Rockford Crescent Mfg Co
RUGER EQUIPMENT INC
Sasgen Derrick Co
Silent Hoist & Crane Co
Stanco Mfg & Sales Inc
STAR MACHINE & TOOL CO
Stimmel Winch Co
Stratton Equipment Co
Uhrden Inc
Unit Mfg Co
Ven Corp
WATSON CO H S
Weld-Built Body Co

CRANKCASE ADDITIVES *See Additives, Fuel & Oil*

CRANKCASE OIL DRAINERS *See Oil Drainers*

CRANKCASE OIL RECLAIMERS *See Oil Reclaimers*

CRANKCASE SLUDGE REMOVING COMPOUNDS *See Compounds Crankcase Sludge Removing*

CRANKCASE VENTILATORS

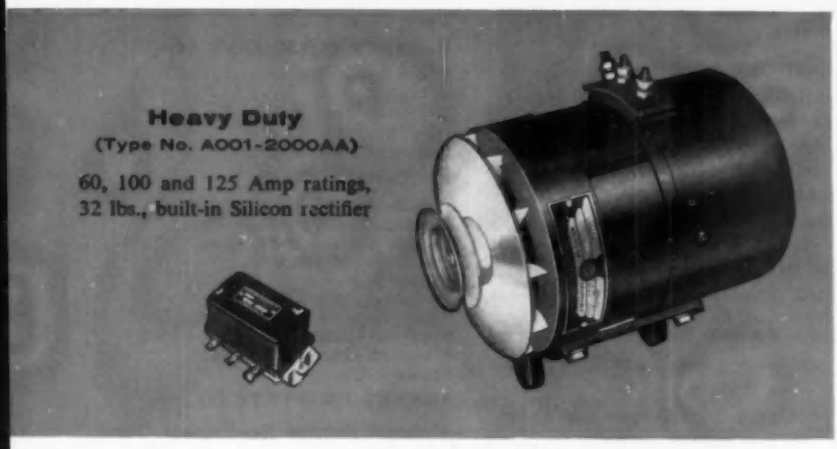
AC SPARK PLUG ELECTRONICS DIV
FRAM CORP
Monarch Tool & Machinery Co
Oildex Corp
Ryder Mfg Co

CRANKSHAFTS, Reconditioned

(advertiser only)
MORCO INC

For addresses of manufacturers, see the new special section starting on **page 199**

ALTERNATOR-GENERATORS SILICON RECTIFIERS



QUALITY AUTOMOTIVE ELECTRICAL EQUIPMENT
Leece-Neville
SINCE 1909
OUR 50th ANNIVERSARY

End electrical failures, cut costs! Send for details now.

The Leece-Neville Company
Dept. CC-11, Cleveland 3, Ohio
☐ Send literature on new L-N Silicon Systems
☐ Have your salesman call on me
Name _____ Title _____
Company _____
Address _____
City _____ State _____

Crankshaft Balancers to Diesel Equipment Testers

CRANKSHAFT BALANCING MACHINES

John Bean Div
Bear Manufacturing Co
Lempco Products Inc

CRANKSHAFT GRINDERS

Evans Reamer & Machine Co
Landis Tool Co
Lempco Products Inc
Norton Co
Storm-Vulcan Inc

SUNNEN PRODUCTS CO

VAN NORMAN MACHINE CO

Waterbury Tool Div
Winona Tool Mfg Co

CRAWLER TRACTORS *See Tractors, Crawler*

CREEPERS, Mechanic

Ashland Mfg Co
Balcrank Inc
Clinton Products Co
Grigg Specialty Tools
Huffman Mfg Co Automotive Div
Kay-Wood Products Inc
Kennedy Service Tools Co
Lawson Co F H
Lisle Corp
P & B Specialties Co
Parker Prods Co
Smash-Proof Co

SNAP-ON TOOLS CORP

Stream Line Tools Inc
Wilson Inc K R

COMBUSTION ANALYZERS *See Analyzers, Combustion*

CURRENT AND VOLTAGE REGULATORS *See Regulators*

CUSHIONS, SEAT *See Seat Cushions*

CUTTERS, TUBING *See Tubing Cutters*

CYLINDER BLOCK SEALERS *See Radiator Sealing Compounds*

CYLINDER BONDING MACHINES (for cracked blocks)

K & W Products Inc
Mercury Electric Corp
Moguloid Co of America

CYLINDER BORING BAR *See Boring Bar*

CYLINDER COMPRESSION GAGES *See Compression Gages*

CYLINDER DE-GLAZERS *See De-Glazers*

CYLINDER GAGES *See Dial Indicator Gages or Micrometers*

CYLINDER HONES

Ammco Tools Inc
Barnes Drill Co

BARRETT EQUIPMENT CO

HALL-TOLEDO INC

Herbrand Div
Kennedy Service Tools Co
Keystone Reamer & Tool Co
Lisle Corp
Micromatic Hone Corp
Moline Tool Co

SNAP-ON TOOLS CORP

Staple Engrg Co
Storm-Vulcan Inc

SUNNEN PRODUCTS CO

VAN NORMAN AUTOMOTIVE EQUIP CO

Wilson Inc K R

CYLINDER LINERS (Sleeves)

ALLIED AUTOMOTIVE PARTS CO

Aluminum Industries Inc

AMERICAN HAMMERED AUTOMOTIVE REPLACEMENT DIV

Campbell Wyant & Cannon Foundry Co
Centrifugal Foundry Co
Detroit Sleeve Mfg Co
Dura-Bond Engine Parts Co
Ertel Products Co Repl Div
Frank Foundries Corp
Hub City Iron Co
Janney Cylinder Co

McQUAY-NORRIS MFG CO

MORAINE PRODUCTS DIV

Nylen Products Inc
Ohio Piston & Machining Co

SEALED POWER CORP

Shenango Furnace Co Centrifugal Cast Products Div

THOMPSON PRODUCTS INC

Toledo Steel Products Div
Versnick Mfg Co
White Machine Works

CYLINDER LINER (SLEEVE) PULLERS *See Pullers*

CYLINDER LUBRICATORS *See Lubricators, Upper Cylinder*

CYLINDER RIDGE REAMERS *See Ridge Reamers*

DECALCOMANIAS

Allied Decals Inc
American Decalcomania Co Inc
Dicks Co C O
Excello Specialty Co
Jaco-Lac Decal Co

MEYERCORD CO

Multi-Color Process Co
Ohio Decalcomania Co
Palm Bros Decalcomania Co
Palm Fechteler Co
Permalux Co
Process Design Co
Regal Air Corp
Screenmasters

DEFROSTING FANS *See Fans, Defrosting*

For addresses of manufacturers, see the new special section starting on **page 199**

DE-GLAZERS, Cylinder

Burd Piston Ring Co Div

HASTINGS MFG CO

Herbrand Div
Lisle Corp
Owatonna Tool Co
Storm-Vulcan Inc

WILKENING MFG CO

DEGREASERS, METAL PARTS *See Cleaning Machines*

DEGREASING COMPOUNDS *See Cleaning Compounds & Solvents*

DEPRESSORS, BRAKE PEDAL *See Brake Pedal Depressors*

DERRICKS *See Cranes*

DETECTORS, CARBON MONOXIDE *See Alarms, Carbon Monoxide*

DETERGENTS, VEHICLE WASHING *See Cleaning Compounds & Solvents*

DIAL INDICATOR GAGES

Ames Co B C

BARRETT EQUIPMENT CO

Boice Gages Inc
Bristol Co
Brown & Sharpe Mfg Co
Dow Mechanical Corp
Federal Products Corp

HALL-TOLEDO INC

Lincoln Park Industries Inc
Nilsson Gage Products Inc
Omega Service Parts Corp
The Partlow Corp
Rimat Gage Co
Rochester Mfg Co Inc
Sealol Corp
Sheffield Corp
Standard Gage Co
Starrett Co

SUNNEN PRODUCTS CO

DIESEL ENGINES *See Engines, Diesel*

DIESEL EQUIPMENT TESTERS

Allis-Chalmers Mfg Co Engine Material Handling Div

BACHARACH INDUSTRIAL INSTRUMENT CO

Diesel Control Corp
Kent-Moore Organization Inc
Kiene Diesel Accessories Inc

MAGNAFLUX CORP

DIESEL FUEL *See Fuels, Engine*

DIESEL FUEL ADDITIVES *See Additives, Fuel & Oil*

DIESEL FUEL FILTERS *See Fuel Filters, Diesel*

DIESEL FUEL PUMPS *See Fuel Pump, Diesel*

DIESEL INJECTORS *See Injectors, Fuel*

DIESEL TRUCKS *See Trucks, Diesel*

DIESEL STARTING FLUID *See Starting Fluid*

New

MACK

"ALUMINUM-LIGHT"

WEIGHT-REDUCED

SIX-WHEEL TRACTORS

to haul top-tonnage loads at top profit

To haul the top-tonnage loads now being extended through more and more states, you need three basic truck qualities:

- Lightness for added payload
- Peak horsepower and torque
- Tandem rear axle drive for maximum loading and top-flight traction.

You get all these truck qualities in the new Mack line of six weight-reduced Thermodyne-powered six-wheel tractors. Each model has been designed and built to help you haul top-tonnage loads at top profit.

- **Light weight**
- **Thermodyne hauling power**
- **Tandem capacity and traction**

Only new MACK give you all

MACK THERMODYNE 205 HP DIESEL WITH MACK 10- OR 15-SPEED TRANSMISSION

Optimum horsepower and high torque are what you need to haul high-gross loads. The unbeatable combination of a Mack Thermodyne® diesel engine and perfectly matched Mack components, gives you both. Famed for dependability, economy and long life, the turbocharged Mack Thermodyne diesel engine is rated at a conservative 205 hp. With either of the matched Mack transmissions it provides high torque at moderate rpm's to bring maximum tonnage trailer loads to top legal speed fast despite terrain . . . delivers more usable horsepower to the wheels—the true measure of tractor performance.

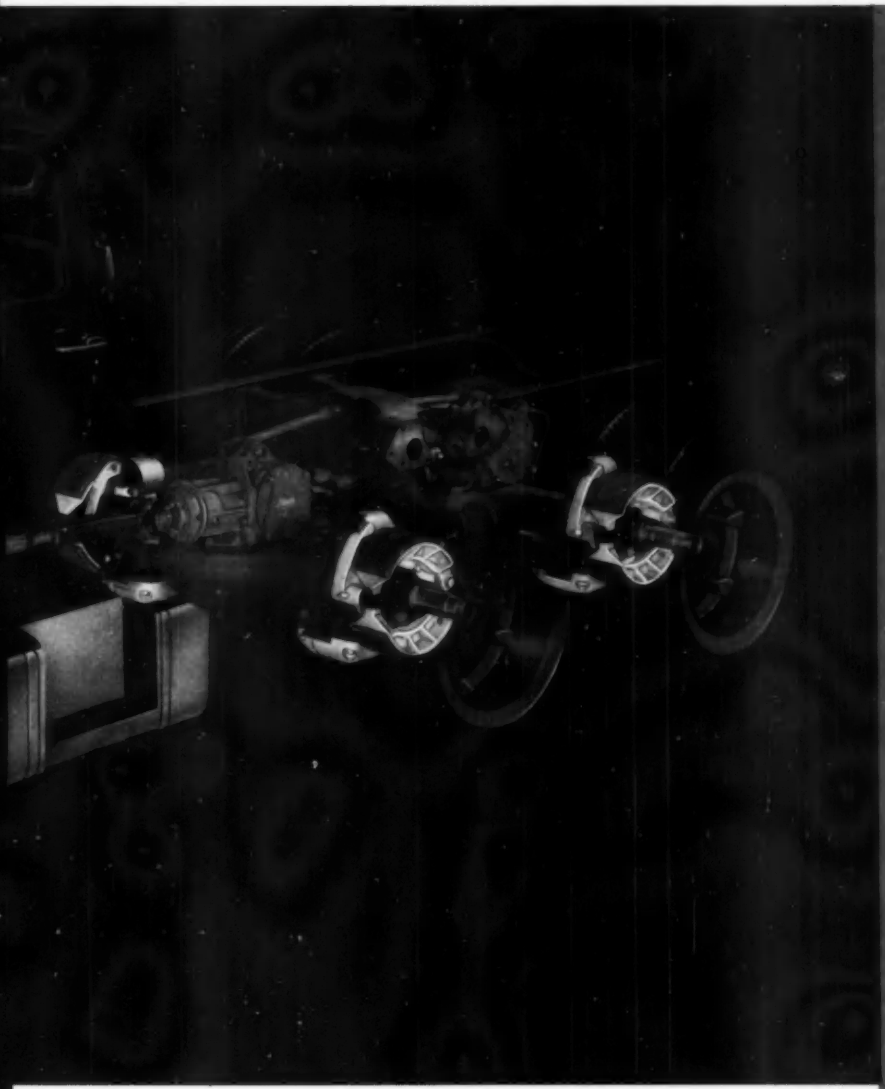
Extensive use of aluminum in such areas as flywheel housing, water manifold and outlet connections, rocker arm covers, further reduces total tractor weight, increasing payload capacity.

WEIGHT-REDUCED CONSTRUCTION FOR ADDED PAYLOAD CAPACITY

From front bumper to rear spring insulator housing caps, Mack's six new tractors utilize aluminum extensively. Weight savings are translated into added payload.

Mack "aluminum-light" tractors are built according to the exclusive Mack concept of Balanced Design—all components are designed and built to work together as an integrated unit. Thus, these Mack tractors—like all Mack trucks—will outlive and out-

"ALUMINUM-LIGHT" six-wheel tractors three qualities for top-profit hauling



LIGHTWEIGHT BALANCED BOGIE WITH EXCLUSIVE POWER DIVIDER

Established favorite of fleets operating six-wheelers, the Mack lightweight Balanced Bogie gives you a truly rugged tandem rear axle weighing even less than dead-axle bogies.

Mack's lightweight Balanced Bogie gives you the benefits of much greater tire life, thanks to self-steering characteristics . . . absence of "bogie-hopping" . . . elimination of tire matching.

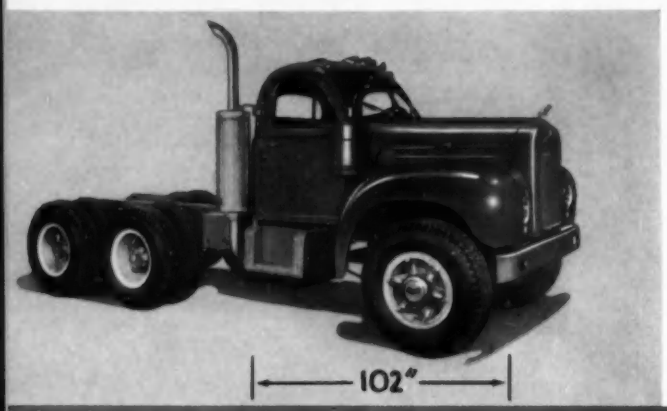
Exclusive Mack Power Divider inter-axle differential permits you to meet tight schedules even under extremely adverse road or terrain conditions by automatically directing power to the axle with more traction without over-stressing parts.

Aluminum components and the lightweight Balanced Bogie mean you can increase payloads to the maximum within legal limits.

perform any other truck designed for the new gross loads.

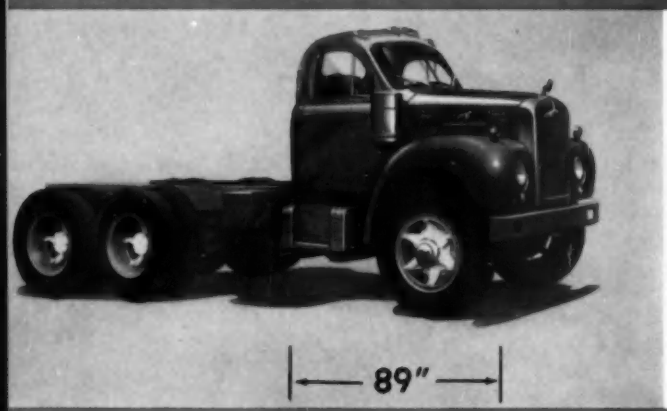
Mack uses light, strong aluminum in front spring brackets... engine supports... transmission cases... steering gear housing and frame brackets... brake shoes, spiders, chamber brackets and air reservoirs... front bumper and optional aluminum fuel tanks—to name just a few. The result is marked weight reduction in a truly heavy-duty tractor.

For your specific high-gross hauling needs select the MACK "ALUMINUM-LIGHT" six-wheel tractor from among six new models



B-61LST
B-613LST

Unanimous choice of fleet owners where over-all length of rig is not a consideration, this rugged, functional B-Model cab features Unitized Construction—even major overhauls can be performed without removing engine. Turbocharged Thermodyne diesel power up to 205 hp is offered in B-613LST. Naturally aspirated B-61LST develops 170 hp. Mack 10-speed Unishift, Duplex and 15-speed Triplex transmissions available.



B-67LST
B-673LST

This B-type Mack series measures only 89" BBC. It has Mack's Contour Cab with Unitized Construction, and easily handles 35-foot high-cube, square-nosed trailers within 45 feet over-all . . . 40-foot trailers within 50 feet. Powered by either Mack turbocharged Thermodyne diesel of 205 hp (Model B-673LST) or the naturally aspirated version of 170 hp (Model B-67LST). Mack 10-speed Unishift, Duplex and 15-speed Triplex transmissions may be specified.

H-67LST
H-673LST

Measuring scant 66⅝" BBC (80⅝" with integral sleeper), Mack H Model provides top gross with maximum length trailers in bridge formula states. Elevated driver position provides excellent road-commanding vision. Either of two Mack Thermodyne engines, turbocharged 205 hp and naturally aspirated 170 hp, is instantly accessible by tilting cab hydraulically. No disconnections of any kind are necessary. Transmissions available include Mack 10-speed Unishift, Duplex and 15-speed Triplex.

MACK FIRST NAME FOR TRUCKS

MACK for over 6 straight years NO. 1 by far in sales of diesel trucks

Mack Trucks, Inc., Plainfield, New Jersey. In Canada: Mack Trucks of Canada, Ltd., Toronto, Ontario

Printed in U.S.A.

7303

DIFFERENTIAL RING GEARS & PINIONS *See Axle Ring Gear & Pinions*

DIMMER SWITCHES *See Switches, Headlight Dimmers*

DIRECTIONAL SIGNALS

Advanced Mfg Inc
American Automatic Devices Co
ARROW SAFETY DEVICE CO
Auto Lamp Mfg Co
BETTS MACHINE CO
Bolser Corp
Carolina Metal Products Inc
COLE-HERSEE CO
Columbus Metal Products Inc
DIETZ CO R E
Do-Ray Lamp Co Inc
Electric Service Works Delta Star Electric Div
Griffin Lamp Co
GROTE MFG CO INC
GUIDE LAMP DIV
Holan Corp J H
Industrial Scientific Co
K-D LAMP CO
KING BEE MFG CO
Miro-Flex Co
Parker Products Inc
Peterson Mfg Co
Rayl Mfg Co
Ring-Wald Products
S & M Lamp Co
SIGNAL-STAT CORP
Sparton Automotive Div
Speaker Corp J W
TUNG-SOL ELECTRIC INC
Turnsignal Co
U S Metal Products Co
YANKEE METAL PRODUCTS CORP

DIRECTIONAL SIGNAL FLASHERS

Advanced Mfg Co
ARROW SAFETY DEVICE CO
Auto Lamp Mfg Co
The Bolser Corp
COLE-HERSEE CO
Do-Ray Lamp Co Inc
GROTE MFG CO
IDEAL CORP
K-D LAMP CO
MACCHI & CO
SIGNAL-STAT CORP
Sparton Automotive Div
TUNG-SOL ELECTRIC INC
YANKEE METAL PRODUCTS CORP

DIRECTIONAL SIGNAL SWITCHES

BETTS MACHINE CO
Bolser Corp
COLE-HERSEE CO
Columbus Metal Products Inc
Do-Ray Lamp Co Inc
GROTE MFG CO
GUIDE LAMP DIV
K-D LAMP CO
SIGNAL-STAT CORP
YANKEE METAL PRODUCTS CORP

DISCS, ABRASIVE *See Sandpaper*

DISPENSERS, GREASE *See Lubricators*

DISTRIBUTORS, IGNITION *See Ignition Distributors*

DISTRIBUTOR PARTS *See Ignition Parts*

DISTRIBUTOR TESTERS *See Ignition Distributor Tester*

DIVIDERS *See Calipers & Dividers*

DOCK RAMPS, Adjustable

American Dockbridge Inc
Auto-Mechanical Dock Board Inc
Brooks & Perkins Inc
Cemco Industries Inc
Freightliner Corp
GLOBE HOIST CO
The Hamilton Tool Co
Herman Co Karl A
Kelly Co
Loomis Machine Co
Magline Inc
Magnesium Co of America
Raymond Corp
Revolvator Co
Rotary Lift Co
Rowe Methods Inc

DOLLIES, AXLE *See Axle Dollies*

DOLLIES, TRANSMISSION *See Jacks Transmission*

DOLLIES WHEEL *See Wheel Dollies*

DOME LAMPS *See Lamps*

DOOR OPENERS (BUS) *See Bus Door Motors*

DOORS, Overhead, Garage

KINNEAR MFG CO
MORRISON STEEL PRODUCTS INC
Overhead Door Corp

DOORS, Overhead Truck & Trailer

Barber-Colman Co
COLLINS & ASSOCIATES INC
Hackney & Sons J A
KINNEAR MFG CO
Kirk & Blum Mfg Co
Met-L-Wood Corp
MORRISON STEEL PRODUCTS INC
TRUK-A-DOOR CO

DOORS, Truck, Steel

Andrews Industries Inc
COLLINS & ASSOCIATES INC
Hackney & Sons J A
KINNEAR MFG CO
Kirk & Blum Mfg Co
Met-L-Wood Corp
MORRISON STEEL PRODUCTS INC
Peterson Products
TRUK-A-DOOR CO

DRAIN COCKS

Acme Air Appliance Co
Anderson Brass Co
BENDIX-WESTINGHOUSE AUTOMOTIVE AIR BRAKE CO
Commonwealth Brass Corp
Consolidated Brass Co
DORMAN PRODUCTS
Edelmann & Co E
Excello Accessories Mfrs Inc
IMPERIAL BRASS MFG CO
Lincoln Brass Works
Loock & Co R J
Lunkenheimer Co
Nauman Mfg Corp R F
Republic Gear Co
Velvac Inc
WEATHERHEAD CO FT WAYNE DIV

DRAIN PLUGS, Crankcase

Champ-Items Inc
Chisholm Industries Inc
DORMAN PRODUCTS INC
Highland Machine Co
Hill Nut Co
Houser Engrg & Mfg Co
Inter-Continent Mfg Co
Lisle Corp
Magnetic Drain Plug Co
Set Screw & Mfg Co
Tourek Mfg Co J J
U S Plug & Fitting Co
Universal Lubricating Systems Inc
WEATHERHEAD CO

DRAINERS, CRANKCASE OIL *See Oil Drainers*

DRILLS

DRILLS, Portable Electric

ALBERTSON & CO
BLACK & DECKER MFG CO
CHICAGO PNEUMATIC TOOL CO
Cummins Portable Tools Div
Dumore Co
INGERSOLL-RAND CO
Jones Motorola Corp

For addresses of manufacturers, see the new special section starting on page 199

Drills to Engines

DRILLS, Electric—*continued*

Kent-Moore Organization Inc
Kett Tool Co
Lee Co K O
Millers Falls Co
Milwaukee Electric Tool Co
Portable Electric Tools Inc
Porter-Cable Machine Co
REMINGTON ARMS CO
Rotor Tool Co
Signal Mfg Co
Skil Corp
SNAP-ON TOOLS CORP
Speed Way Mfg Co
Stanley Electric Tool Div
Thor Power Tool Co
United States Electrical Tool Div
Wen Products Inc
Wilson Inc

DRILLS, Portable Pneumatic

Air-Speed Tool Co
ARO EQUIPMENT CORP
Brown Tool Mfg Co
Buckeye Tools Corp
CHICAGO PNEUMATIC TOOL CO
Cleco Div
Cleveland Pneumatic Tool Co
Gardner-Denver Co
Ideal Industries Inc
INGERSOLL-RAND CO
Master Pneumatic Tool Co
REMINGTON ARMS CO
Rotor Tool Co
Skil Corp
Thor Power Tool Co

DRILL PRESSES

ALBERTSON & CO INC
Atlas Press Co
Boice-Crane Co
Cincinnati Lathe & Tool Co
Cleereman Machine Tool Corp
Delta Power Tool Div
Dumore Co
ELECTRIC AUTOLITE CO
Leland-Gifford Co
Morris Machine Tool Co
Skil Corp
South Bend Lathe Works
Thor Power Tool Co
Walker-Turner Div

DRIVE AXLES, FRONT *See Axles, Front Drive*

DRIVER TESTING EQUIPMENT

Allgaier Earl
Educational Device Co
Keystone View Co
Porto-Clinic Instruments Inc

DRIVES, V-BELT *See Axles Belt Drive Adapter*

DRUMS, BRAKE *See Brake Drums*

DRUMS, BRAKE, GAGES *See Brake Drum Gages*

DRYING LAMPS *See Lamps, Drying*

DUMP BODY ANGLE INDICATORS *See Indicators*

DUMP TRUCKS *See Trucks, Dump (Construction & Off-Highway) or Bodies, Dump*

DYNAMOMETERS, Chassis

Bear Mfg Co
CLAYTON MFG CO
Maxwell Dynamometer Co
Mid-West Dynamometer & Engineering Co
Nankervis Co George L

DYNAMOMETERS, Engine

Clayborne Mfg Co
CLAYTON MFG CO
Dynamatic Div
General Electric Co Apparatus Sales Div
Link Engrg Co
Mid-West Dynamometer & Engineering Co
Nankervis Co George L
Taylor Dynamometer & Machine Co
Toledo Scale Co
WESTINGHOUSE ELECTRIC CORP

ELECTRIC TOOLS AND EQUIPMENT *See item desired*

ELECTROLYTE, BATTERY *See Battery Electrolyte*

ELEVATING TAILGATES *See Tailgates Elevating*

EMERGENCY BRAKE LEVERS *See Brake Levers Parking*

EMERGENCY BRAKES *See Brake, Parking or Brake Emergency Systems*

EMERY CLOTH *See Sandpaper*

ENAMELS, *See Paints, Enamel*

ENGINES

ENGINES, Diesel

Allis-Chalmers Mfg Co Engine Material Handling Div
American Marc Inc
Caterpillar Tractor Co
Cerlist Diesel Inc
CONTINENTAL MOTORS CORP
CUMMINS ENGINE CO
Curtiss-Wright Corp
DETROIT DIESEL ENGINE DIV
Diesel Energy Corp
Doan Manufacturing Div
Fageol Products Co
HERCULES MOTORS CORP
MACK TRUCKS INC
P & H DIESEL ENGINE DIV
WAUKESHA MOTOR CO
WHITE DIESEL ENGINE DIV

ENGINES, Gasoline

Aircooled Motors Inc
Allis-Chalmers Mfg Co Buda Div
Brennan Motor Mfg Co
CHEVROLET MOTOR DIV
CONTINENTAL MOTORS CORP
DIAMOND T MOTOR TRUCK CO
Fageol Products Co
FORD MOTOR CO
GMC TRUCK & COACH DIV
HERCULES MOTORS CORP
Herrmann Engrg Co
INTERNATIONAL HARVESTER CO
MACK TRUCKS INC
REO DIV
STUDEBAKER-PACKARD CORP
TEPCO ENGINES DIV (Rebuilt)
WAUKESHA MOTOR CO
WHITE MOTOR CO
Willys Motors Inc
Wisconsin Motor Corp

ENGINES, Gasoline, Small

Briggs & Stratton Corp
Clinton Engines Corp
CONTINENTAL MOTORS CORP
Cushman Motor Works Inc
Fairbanks Morse & Co
HERCULES MOTORS CORP
Jacobsen Mfg Co
Kermath Mfg Co
Kohler Co
Lauson-Engine Div
McCulloch Motors Corp
Minneapolis-Moline Co
Mustang Motor Products Corp
Onan & Sons Inc
Power Products Corp
REO MOTORS DIV
Sensation Mower Inc
Universal Motor Co
WAUKESHA MOTOR CO
West Bend Aluminum Co
Wisconsin Motor Corp

ENGINES, LP Gas

Allis-Chalmers Mfg Co Engine Material Handling Div
Caterpillar Tractor Co
CONTINENTAL MOTORS CORP
HERCULES MOTORS CORP
INTERNATIONAL HARVESTER CO
D W Onan & Sons Inc
REO MOTORS DIV
WAUKESHA MOTOR CO
Wisconsin Motor Corp

ENGINE ANALYZERS *See Analyzers*

ENGINE HEATERS, PREHEATING *See Heaters, Engine Preheating*

ENGINE GOVERNORS *See Governors*

ENGINE REPAIR STANDS *See Stands, Engine*

ENGINE SUPPORTS *See Mountings, Insulated Rubber*

EXCHANGERS, HEAT *See Heat Exchanger*

EXHAUST BRAKES *See Brakes Compression Exhaust*

EXHAUST GAS ANALYZER *See Analyzer Combustion*

EXHAUST GAS INDICATOR *See Alarms Carbon Monoxide*

EXHAUST FANS *See Fans, Exhaust*

EXHAUST GAS REMOVING SYSTEMS *See Ventilators Exhaust Gas*

EXHAUST MANIFOLDS *See Manifolds*

EXHAUST & TAIL PIPES

AP Parts Corp
ALEXANDER-TAGG INDUSTRIES INC
Arvin Industries Inc
De Koven Mfg Co
Douglass Muffler Mfg Corp
Everhot Products Co
Flexonics Corp
Formed Tubes Inc
Goerlich's
Haviland Co
Houser Engrg & Mfg Co
International Parts Corp
Lion Auto Parts & Mfg Co
McCord Corp
Maremont Muffler Div
Michigan Steel Tube Products Div
Northern Tube Co
Ohio Parts Inc
Porter Muffler Mfg Co
Powell Muffler Co
Pratt Muffler Div
Riker Mfg Inc
Ryder Mfg Co
Smithy's Muffler Co
Tube Products Corp
Walker Mfg Co of Wis
Western Piping & Engrg Co

EXHAUST SMOKE METERS

BACHARACH INDUSTRIAL INSTRUMENT CO

EXPANDERS, TUBELESS TIRE BEAD *See Tire Service Equipment*

EXPANDERS, PISTON SKIRT *See Piston Skirt Expanders*

EXPANDERS, PISTON RING *See Piston Ring Expanders*

EXTINGUISHERS, FIRE *See Fire Extinguishers*

EXTRACTORS, Bolt & Screw

Arsco Mfg & Sales Corp
C & G Wheel Puller Co
Chicago-Latrobe
Cleveland Twist Drill Co
Duro Metal Products Co
Greenfield Tap & Die Div
Groove-Rite Tool Co
Herbrand Div
Kennedy Service Tools Co
Keystone Reamer & Tool Co
Loock & Co R J
National Machine & Tool Co
New Britain Machine Co Hand Tool Div
Owatonna Tool Co
P & C Tool Co
Quality Tools Corp
Reps Tool Co
Roddick Tool Co
Spray Products Corp
Titan Tool Co
Vermont Tap & Die Corp
Whitman & Barnes Div
Wilde Drop Forge & Tool Co
Williams & Co J H
Wilson Inc K R
Zim Mfg Co

FABRICS, Coated Cloth

Athol Mfg Co
Bemis Bro Bag Co
Blosom Mfg Co
Brockton Stay Co
Burlington Mills Inc
Columbus Coated Fabrics Corp
Duncan Co W H
du Pont de Nemours & Co E I Fabrics Div
East Akron Tarpaulin & Awning Co
Federal Industries Div
Goodall-Sanford Inc Reading Div
GOODRICH INDUSTRIAL PRODS CO B F
Haartz Auto Fabric Co
Haartz-Mason Inc Mechanical Products Div
Hettrick Mfg Co
Hoosier Tarpaulin & Canvas Goods Co Inc
Interchemical Corp Cotan Div
Jamestown Finishes Inc
Joanna-Western Mills Co
Landers Corp
Niagara Fabric Mfg Co
Pantasote Co
REEVES BROS INC
Textileather Div
United States Plywood Corp
UNITED STATES RUBBER CO
WELLINGTON SEARS CO
Weymouth Art Leather Co

FABRICS, Uniform

Metcalf Bros & Co Inc
REEVES BROTHERS INC

FACINGS, CLUTCH *See Clutch Facings*

FANS

FANS (Cooling System)

EATON MFG CO
Everhot Products Co
Hayes Industries Inc
Hilliker-Werner Inc
Jambor Tool & Stamping Co
SCHWITZER CORP
Service Products Corp
Warner Electric Brake & Clutch Co (variable speed)

FANS, Defrosting

Casco Products Corp
Chemex Corp
Chicago Mfg Co
Diehl Mfg Co Finderme Plant
EVANS PRODUCTS CO
Ha Dees Heater Products Huppower Div
Lydon-Bricher Mfg Co
Roto-Beam
Signal Mfg Co

FANS, Exhaust

(See also Ventilators, Exhaust Gas)

American Standard Industrial Div
Binks Mfg Co
Buffalo Forge Co
Champion Blower & Forge Co
Clarage Fan Co
Emerson Electric Mfg Co
Englo Products Corp
Ilg Electric Ventilating Co
Joy Mfg Co
Kirk & Blum Mfg Co
M & E Mfg Co
Spray Engineering Co
Standard Electric Mfg Co
STURTEVANT DIV

FAN BELTS

Asbestos Mfg Co
Crown Products Co
Dallas Mfg & Sales Co
DAYTON INDUSTRIAL PRODUCTS CO
DAYTON RUBBER CO
DURKEE-ATWOOD CO
FIRESTONE INDUSTRIAL PRODUCTS CO
FIRESTONE TIRE AND RUBBER CO
GATES RUBBER CO
Globe Rubber Products Corp
GREY-ROCK DIV
Haywood Industries
Lion Auto Parts & Mfg Co
Loreman Products
MOBIL OIL CO
Rawhide Products Co
Raybestos-Manhattan Inc Equip Sales Div
Ridbo Laboratories Inc
THERMOID DIV
UNITED STATES RUBBER CO

FASTENERS, Sheet Metal

Carr Fastener Co
Champ Items Inc
DORMAN PRODUCTS INC
Dzus Fastener Corp

For addresses of manufacturers, see the new special section starting on **page 199**

Feeler Gages to Flexible Shafting

FASTENERS—*continued*

GENERAL TIRE & RUBBER CO INDUSTRIAL PRODUCTS DIV

HUCK MFG CO

LAMSON & SESSIONS CO

Monadnock Mills
Palnut Co
Prestole Corp
Rosan Inc
Simmons Fastener Corp

SOUTHCO DIV

STAR EXPANSION INDUSTRIES CORP

Tinnerman Products Inc
Townsend Co Engineered Fasteners Div
United-Car Fastener Corp

FEELER GAGES

Ames Co B C
Arsco Mfg & Sales Corp
Brown & Sharpe Mfg Co
Central Tool Co
D'Nomlart Inc
Duro Metal Products Co
Federal Products Corp
Herbrand Div
Kastar Inc
Kennedy Service Tools Co
Kent-Moore Organization Inc
Keystone Reamer & Tool Co
Klopp Engrg Inc
Lincoln Park Industries Inc
Lufkin Rule Co
Machined Parts Corp
Millers Falls Co
Nasa Tool Mfg Corp
National Machine & Tool Co
New Britain Machine Co Hand Tool Div
Owatonna Tool Co
P & C Hand Forged Tool Co
Preferred Electric & Wire Co
Quality Tools Corp
Rovtar Tool-Die Mfg Co
Sheffield Corp

SNAP-ON TOOLS CORP

Starrett Co L S
Tacony File & Hardware Co
Union Tool Co
Van Keuren Co
Wilde Drop Forge & Tool Co
Williams & Co J H
Zoerman-Clark Mfg Co

FELT, INSULATING *See Insulation*

FENDERS

(Advertisers Only)

BUDD CO THE

FENDER FLAPS *See Splash Guards*

FENDER LAMPS *See Lamps*

FIFTH WHEELS (Semi Trailer)

AMERICAN STEEL FOUNDRIES HAMMOND DIV

Austin Trailer Equipment Co

BARTLETT TRAILER CORP

BINKLEY MFG CO

Bound Brook Safety Equipment Co

BROWN TRAILER DIV

Carnegie Body Co
Cemco Industries Inc

DAYTON STEEL FOUNDRY CO

FONTAINE TRUCK EQUIPMENT CO

FRUEHAUF TRAILER CO

HIGHWAY TRAILER CO

HOLLAND HITCH CO

Kay-Brunner Steel Products Inc
Kingham Trailer Co
Pollard Co C E
SFR Enterprises
Silver Eagle Co

SNYDER TANK CORP

TRAILMOBILE INC

Weber Trailer & Mfg Co

WESTERN UNIT CORP

FIFTH WHEELS, Hydraulic

AMERICAN STEEL FOUNDRIES HAMMONND DIV

BARTLETT TRAILER CORP

Cemco Industries Inc

FONTAINE TRUCK EQUIPMENT CO INC

Pollard Co C E

FILLERS *See Body Repair Compounds*

FILTERS, AIR *See Air Cleaner*

FILTERS, COOLANT *See Cooling System Filters*

FILTERS, DIESEL *See Fuel Filters, Diesel*

FILTERS, GASOLINE *See Fuel Filters, Gasoline*

FILTERS, LP GAS *See Fuel Filters, LP Gas*

FILTERS, OIL *See Oil Filters*

FILTERS, OIL, TRANSMISSION *See Oil Filters, Transmission*

FIRE ENGINES (TRUCKS) *See Trucks, Fire Apparatus*

FIRE EXTINGUISHERS, Portable

Allen Mfg Co
American-LaFrance Corp
Ansul Chemical Co Fire Extinguisher Div

ANTHES FORCE OILER CO

Astoria Mfg Co
Beacon Devices Inc
Bostwick Laboratories Inc Aersol Div
Diener Mfg Co Geo W
Elkhart Brass Mfg Co
Fire-Killer Mfg Co
Fyr-Fyter Co
General Fire Extinguisher Corp
General Pacific Corp
Heet Div
Kent Extinguisher Co

KIDDE & CO INC WALTER

Lenk Mfg Co
Liquid Glaze Inc
Merlite Industries Inc
Plasti-Kote Inc
Power-Pak Products Inc
Protectoseal Co
Red Comet Inc
Safety Fire Extinguisher Co
Safety First Prods Corp
Seco Engrg & Mfg Inc
Snyder & Son M L Inc
Stop-Fire Inc

YANKEE METAL PRODUCTS CORP

FITTINGS, TUBE *See Tube Fittings*

FLAPS, MUD GUARDS *See Splash Guards*

FLARES, FLASHERS *See Flares, Emergency*

FLARES, Emergency

Advanced Mfg Inc
American Automatic Devices Co

ANTHES FORCE OILER CO

ARROW SAFETY DEVICE CO

Bolser Corp
Busch & Co A G
Carpenter Mfg Co
Delbar Products Inc

DIETZ CO R E

Do-Ray Lamp Co
Emarco Corp
Griffin Lamp Co

GROTE MFG CO

K-D LAMP CO

KILGORE INC

Pacific Mercury Mfg Corp Mech Equip Div
Portable Light Co
S & M Lamp Co

SIGNAL-STAT CORP

Standard Railway Fusee Corp Signal Flare Div
Toledo Pressed Steel Co
Turnsignal Co
U-C Lite Mfg Co
Vari-Products Co

YANKEE METAL PRODUCTS CORP

FLARING TOOLS *See Tubing Flaring Tools*

FLASHERS, DIRECTIONAL SIGNAL *See Directional Signal Flashers*

FLAW DETECTORS *See Crack & Flaw Detectors*

FLEET RECORDS (FORMS) *See Forms Fleet Record*

FLEXIBLE FUEL LINES *See Fuel Lines*

FLEXIBLE SHAFTING

AC SPARK PLUG ELECTRONICS DIV

ACTUATOR PRODUCTS CORP

ALBERTSON & CO

Barbour-Stockwell Co
Blackstone Mfg Co

ELECTRIC AUTOLITE CO

FAWICK BRAKE DIV

Gilpak Automotive Products Div
Hall Lamp Co C M
Highland Machine Co
Hygrade Products Div
Jarvis Corp
Paragon Products Corp
Parts Mfg Co
Perfection Automotive Products Corp
Preferred Electric & Wire Co
Speedometer Service Co
Stewart Mfg Corp F W

STEWART-WARNER CORP INSTRUMENT DIV

STOW MFG CO

Teleflex Inc
United Parts Mfg Co
United States Taximeter Co
Valley Forge Products Inc
Wheel Parts & Mfg Co
Wyzenbeek & Staff Inc

FLEXIBLE TUBING, METALLIC *See Hose Air, Fuel Lines & Oil Lines*

FLOOR CLEANERS *See Cleaning Compounds & Solvents*

FLOOR COVERINGS

ALUMINUM CO OF AMERICA

American Abrasive Metals Co
American Mat Co
Bridgeport Brass Co
Consolidated Water Power & Paper Co
Doan Manufacturing Div
Eastern Stainless Steel Corp

FRUEHAUF TRAILER CO

GOODYEAR TIRE & RUBBER CO

Gramm Trailer Corp
Inland Steel Co
Jones and Laughlin Steel Corp
Moore & Co Samuel
Pit Bar Manufacturing Co
Plant Maintenance Inc
Revere Copper & Brass Inc

REYNOLDS METALS CO

SEIBERLING RUBBER CO

Stran-Steel Div

FLOOR SWEEPERS

Flour City Brush Co
Milwaukee Dustless Brush Co (also floor squeeges)
Patch and Kase Corp

FLOORING, Truck & Trailer

ALUMINUM CO OF AMERICA

Bustin Steel Products Inc
Jones & Laughlin Steel Corp
Lewis-Shepard Products Inc
Oregon Laminated Lumber Co
Plant Maintenance Inc Truck Floor Div
Revere Copper & Brass Inc

REYNOLDS METALS CO

TIMPTE BROS INC

ALAN WOOD STEEL CO

FLUID, STARTING *See Starting Fluid*

FLUID, HYDRAULIC BRAKE & SHOCK ABSORBER *See Brake Fluid*

FLUSHERS, RADIATOR & BLOCK *See Cooling System Flushers*

FLYWHEEL RING GEARS

Detroit Bevel Gear Co

EATON MFG CO AUTOMOTIVE GEAR DIV

Lempco Products Inc
Perfection Gear Co
Republic Gear Co
Springfield Mfg Co

WOHLERT CORP

FOG LAMPS *See Lamps*

FORK LIFT TRUCKS *See Lift Trucks*

FORMS, Fleet Records

FLEET FORMS INC

IDEAL SYSTEM CO

Tex-N-Set Manifold Co
Uarco Inc

FOUNTAIN BRUSHES *See Washers, Fountain Brushes*

FRAME STRAIGHTENERS *See Alignment Equipment*

FRAMES, Pressed Steel

BUDD CO

DANA CORP

Hoosier Tarpaulin & Canvas Goods Co Inc

MIDLAND-ROSS CORP

Midland Steel Products Co Owosso Div

PARISH PRESSED STEEL DIV

Smith Corp A O

FREEZE METERS *See Hydrometers*

FRONT AXLES *See Axles, Front*

FRONT END ALIGNMENT EQUIPMENT *See Alignment Equipment*

FRONT END LOADERS (Construction & Off-Highway)

Allis-Chalmers Mfg Co
J I Case Co
Caterpillar Tractor Co
Clark Equipment Co Construction Machinery Div
The Frank G. Hough Co

INTERNATIONAL HARVESTER CO

Jaeger Machine Co
Mixermobile Manufacturers Inc
The Oliver Corp
Pettibone Mulliken Corp
Tractomotive
The Yale & Towne Mfg Co

For addresses of manufacturers, see the new special section starting on **page 199**

FRONT END SUSPENSION PARTS

Aircraft & Automotive Prods Inc
Allied Automotive Parts Co
Aluminum Industries Inc
Andrew Parts Mfg Co
Austin Trailer Equipment Co
Bohn Aluminum & Brass Corp
Brown Corp

CHRYSLER CORP

Cleveland Cap Screw Co

CLEVITE HARRIS PRODUCTS INC

DAYTON STEEL FOUNDRY CO THE

Elgin Machine Works
Ertel Products Co Repl Div
Gilpak Automotive Products Div
Imerman Screw Products Co
Inland Mfg Div
Jambor Tool & Stamping Co
Kings County Centerless Grinding Co
Lion Auto Parts & Mfg Co
Master Parts Div

McQUAY-NORRIS MFG CO

Moog Industries Inc
Neapco Products Inc
Oliver Iron & Steel Corp
Parts Mfg Co
Republic Engrg & Mfg Co
Saginaw Steering Gear Div
Superior Machine Tool Co
Thompson Products Inc
Toledo Steel Products Div

TRANSIT PARTS CO

Trayer Products Inc
Wheel Parts & Mfg Co

WOHLERT CORP

FUELS

FUELS, Gasoline & Diesel

American Liquid Gas Corp
American Oil Co
Ashland Oil & Refining Co
Associated Div
Atlantic Refining Co
California Co (Denver Colo)
California Oil Co
Cities Service Oil Co
Continental Oil Co
D-X Sunray Oil Co
Emerol Mfg Co

ESSO STANDARD OIL CO

Ethyl Corp

GULF OIL CORP

KENDALL REFINING CO

Mid Continent Petroleum Corp

MOBIL OIL CO

Pennsylvania Refining Co

PHILLIPS PETROLEUM CO

Pure Oil Co
Richfield Oil Corp

SHELL OIL CO

SINCLAIR REFINING CO

SOCONY MOBIL OIL CO

STANDARD OIL CO OF CALIFORNIA

Fuels, LP Gas to Fuel Pumps

FUELS—*continued*

STANDARD OIL CO (INDIANA)
STANDARD OIL CO OF TEXAS
Sun Oil Co
TEXACO INC
Tide Water Associated Oil Co
UNION OIL CO OF CALIFORNIA
Valvoline Oil Co

FUELS, LP Gas
(Advertisers Only)

MOBIL OIL CO
PHILLIPS PETROLEUM CO
TEXACO INC

FUEL ADDITIVES *See Additives, Fuel & Oil*

FUEL FILTERS, Diesel

AC SPARK PLUG ELECTRONICS DIV
Air-Maze Corp
American Bosch Div
Bendix-Skinner Div
ROBERT BOSCH CORP
Briggs Filtration Co Automotive Div
Commercial Filters Corp
Cuno Engrg Corp
De Luxe Products Corp
FRAM CORP
HARTFORD MACHINE SCREW CO
Hilliard Corp
Indiana Commercial Filters Corp
LUBER-FINER INC
Permanent Filter Corp
PUROLATOR PRODUCTS INC
Refill Filter Co
Truck Accessories Co
W G B Oil Clarifier Inc
Wells Mfg Corp
Winslow Engrg and Mfg Co
WIX CORP

FUEL FILTERS, Gasoline

AC SPARK PLUG ELECTRONICS DIV
Air-Maze Corp
Alloy Mfg Co
Ashland Oil & Refining Co
Bendix-Skinner Div
Briggs Filtration Co Automotive Div
Carter Carburetor Div
Champ-Items Inc
Chilton Metal Products Inc
Cuno Engrg Corp
De Luxe Products Corp
ELECTRIC AUTOPULSE DIV
Engine Accessories Mfg Co
ENSIGN CARBURETOR CO
FRAM CORP
Hygrade Products Div
IMPERIAL BRASS MFG CO
J & S Carburetor Co
Kem Mfg Co
Klemm Automotive Products Co
MORAINE PRODUCTS DIV
Paser Mfg Co
Permanent Filter Corp
PUROLATOR PRODUCTS INC
Refill Filter Co
STANDARD MOTOR PRODUCTS INC
Sparkler Mfg Co
Tillotson Mfg Co
UNITED MOTORS SERVICE
Wells Mfg Corp
WIX CORP
Zenith Carburetor Div

FUEL FILTERS, LP Gas

Air-Maze Corp
American Liquid Gas Corp
Bean Products Mfg Co
Briggs Filtration Co Automotive Div
Century Gas Equipment
ENSIGN CARBURETOR CO

FUEL GAGES (Instrument Panel)

AC SPARK PLUG ELECTRONICS DIV
ELECTRIC AUTOLITE CO
KING-SEELEY CORP
Rochester Mfg Co Inc
STEWART-WARNER CORP INSTRUMENT DIV
United States Gauge Div

FUEL INJECTORS *See Injectors, Fuel*

FUEL LINES, Flexible
(See also Tubing)

AC SPARK PLUG ELECTRONICS DIV OF GENERAL MOTORS
Acme Rubber Mfg Co
AEROQUIP CORP
American Coupling Corp
Anaconda Metal Hose Div
Anchor Coupling Co
Andrews Parts Mfg Co
Asbestos Mfg Co
Atlantic Metal Hose Co
Avon Tube Div
Boston Woven Hose & Rubber Co
Bundy Tubing Co
Champ-Items Inc
Coronet Parts Mfg Co
Danielson Mfg Co
DORMAN PRODUCTS INC
Edelmann & Co
Electric Hose & Rubber Co
EVERHOT PRODUCTS CO
Excello Accessories Mfrs Inc
FAWICK BRAKE DIV
Flexonics Corp

For addresses of manufacturers, see the new special section starting on **page 199**

GATES RUBBER CO
HARTFORD MACHINE SCREW CO (for injectors)
Hewitt-Robins Inc
IMPERIAL BRASS MFG CO
Loock & Co R J
Manhattan Rubber Div
Metal Hose & Tubing Co
Motive Equipment Mfrs Inc
Mulconroy Co
National Copper & Smelting Co
Penn Brass & Copper Co
Pennsylvania Flexible Metallic Tubing Co
Perfect Parts Inc
Preferred Electric & Wire Co
Republic Gear Co
Republic Rubber Div
Republic Steel Corp Steel & Tube Div
Resistoflex Corp
Snyder & Son Inc M L
Titeflex Inc
U S RUBBER DIV
United Wire & Supply Co
WEATHERHEAD CO FORT WAYNE DIV
Wheel Parts & Mfg Co

FUEL METERS, Vehicle

SERVICE RECORDER CO

FUEL MILEAGE TESTERS *See Testers, Fuel Mileage*

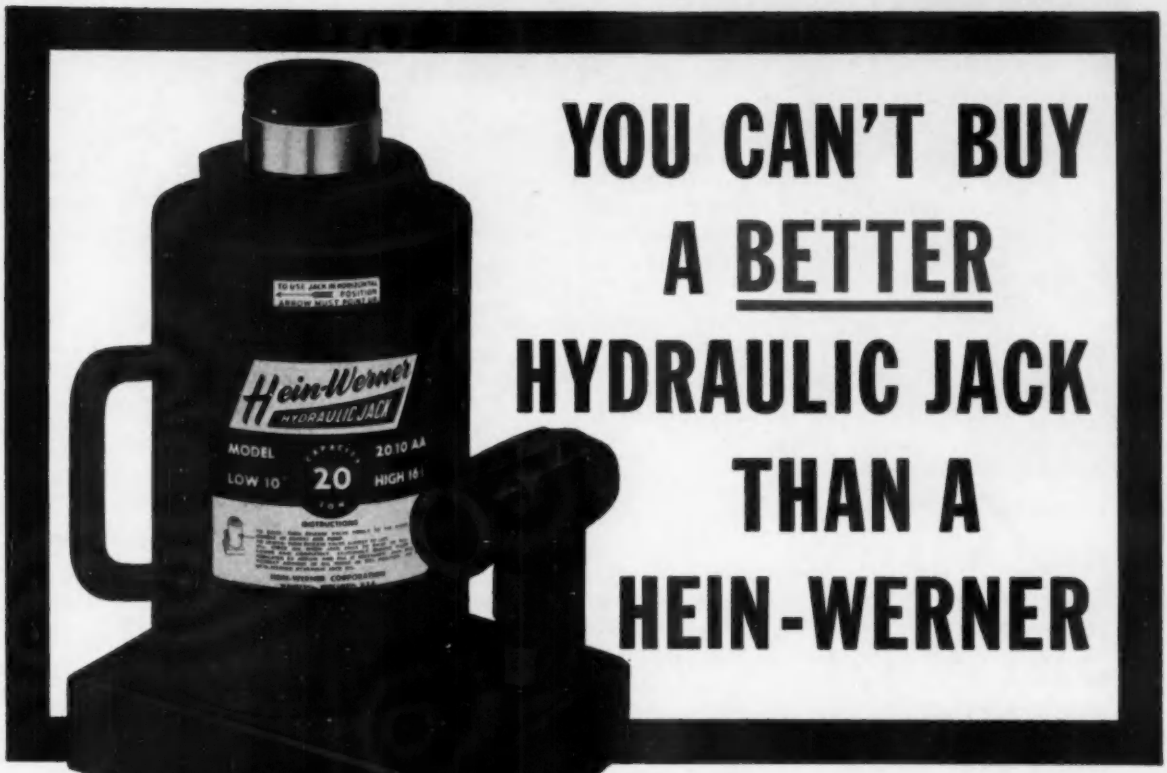
FUEL PRESSURE REGULATORS *See Regulators, Fuel Pressure*

FUEL PUMPS, Diesel

Allis-Chalmers Mfg Co Engine Material Handling Div
Allyn Mfg Co
American Bosch Div
ROBERT BOSCH CO
Caterpillar Tractor Co
CUMMINS ENGINE CO
HARTFORD MACHINE SCREW CO (ROOSA MASTER)
INTERNATIONAL HARVESTER CO
Scintilla Div

FUEL PUMPS, Gasoline

AC SPARK PLUG ELECTRONICS DIV
Airtex Automotive Div
Alloy Mfg Co
American Bosch Div
American Motor Products Co
Blackstone Mfg Co
Carter Carburetor Div
Eastern Industries Inc
ELECTRIC AUTOPULSE DIV
FAWICK BRAKE DIV
Freedco Products Inc
Hartford Machine Screw Co
Hygrade Products Div
Kem Mfg Co
Master Parts Div
P & D MFG CO



YOU CAN'T BUY A BETTER HYDRAULIC JACK THAN A HEIN-WERNER

Model 20.10AA.
Capacity 20 tons.
Low 10". High 16½".

Model E5.9A.
Capacity 5 tons.
Low 9". High 18½".

Model E8.9A.
Capacity 8 tons.
Low 9". High 20".

Model E12.A.
Capacity 12 tons.
Low 9". High 18-1/16".

For quality, safety and trouble-free lifting performance, you can't buy a better hydraulic jack than a Hein-Werner.

Shop men prefer Hein-Werner Hydraulic Jacks because they are powerful, dependable, easy-acting and built to withstand severe use. And you can count on Hein-Werner to provide exclusive and unique jack features that mean longer service life; more jack for the money. For example: one piece extension screw is heat-treated . . . massive top nut provides doubled bearing surface for ram . . . neoprene grooved Quad-Ring Seal meets closer tolerances, gives double sealing action . . . unbreakable malleable handle socket . . . "Heinite" piston withstands ten times the wear of conventional types . . . positive, direct release valve . . . pre-formed leather ram cups . . . larger, heavier base for maximum stability under load.

Make sure all of your shop jacks are Hein-Werner. See your Hein-Werner jobber, or write us for the full story on the *completeness* of the Hein-Werner Hydraulic Jack line—there's a model to meet every need ranging in capacities from 1½ to 100 tons.

Choose the jack line that's designed for '59. Remember, Hein-Werner manufactures and sells more hydraulic jacks than any other company in the world.

Hein-Werner CORPORATION
WAUKESHA, WISCONSIN

The complete Hein-Werner line includes: The famous "55" and "Screwball" . . . Under-Axle Jacks of 1½ to 100 ton capacity . . . "Bumper-Lift" and Ratchet Jacks for passenger cars . . . Service Jacks for shop use . . . Transmission Jacks . . . Adjustable Car Stands . . . "Push and Pull" and "Pushmaster" jacks for body, fender and frame repair work.

. . . and for

NEARBY SERVICE

on B&D tools

Black & Decker maintains 50 factory service branches plus authorized repair stations to give your B&D tools the attention every mechanical product needs periodically. Keep your B&D tools in top condition, on the job all the time.

Only factory parts and factory-approved methods are used. Fast service and reasonable cost, always.

SWIFTY SERVICE says be sure to ask about:

FREE TOOL INSPECTION no cost, no obligation.

STANDARD B&D GUARANTEE after completion of all recommended repair work.

You'll find the location of the nearest B&D repair facility in the Yellow Pages under "Tools-Electric," or write for address to: THE BLACK & DECKER MFG. Co., Dept. S-4611, Towson 4, Md.

50th YEAR

Black & Decker

Quality Electric Tools

Fuel Pumps to Gaskets

FUEL PUMPS—*continued*

STEWART-WARNER CORP INSTRUMENT DIV

TOKHEIM CORP

WALBRO CORP (AUTOPULSE)

Wells Mfg Corp

FUEL PUMPS (Service Station)

BENNETT PUMP DIV

Bowser Inc
Buckeye Iron & Brass Works
Dayton Pump & Mfg Co
Erie Meter Systems Inc
Gilbert & Barker Mfg Co
Smith Corp A O
Southwest Pump Co

TOKHEIM CORP

Wayne Pump Co

FUEL PUMP PARTS (Gasoline)

Airtex Automotive Div
Alloy Mfg Co
American Motor Products Co

FAWICK BRAKE DIV

Highland Machine Co
Hygrade Products Div
Kem Mfg Co
Master Parts Div
Mica Insulator Co
National Ignition Mfg Co
Neff Perkins Co
Preferred Electric & Wire Co
Simmons Mfg Co

STEWART - WARNER CORP INSTRUMENT DIV

TOKHEIM CORP

United Parts Mfg Co
Wells Mfg Corp

WOHLERT CORP

FUEL PUMP TESTERS

AC SPARK PLUG ELECTRONICS DIV

Airtex Automotive Div
Allen Electric & Equipment Co
Arsco Mfg & Sales Corp

BACHARACH INDUSTRIAL INSTRUMENT CO

Cornwell Quality Tools Co
Hanson Co Harvey E
Hygrade Products Div
Kem Mfg Co
Kennedy Service Tools Co
King Electric Equipment Co
Schauer Mfg Co

STEWART - WARNER CORP INSTRUMENT DIV

Sun Electric Corp
Weidenhoff Corp

FUEL TANKS *See Tanks, Fuel*

FUSEES, Emergency

(Advertisers Only)

ANTHES FORCE OILER CO

K-D LAMP CO

KILGORE INC

YANKEE METAL PRODUCTS CORP

FUSES, Electric

Bussmann Mfg Div
Eagle Electric Mfg
Littlefuse Inc
Monarch Electric Corp
Preferred Electric & Wire Co
Reynolds Mfg Co
Royal Electric Corp

SIGNAL-STAT CORP

Trico Fuse Mfg Co
Ware Fuse Corp

For addresses of manufacturers, see the new special section starting on **page 199**

GAGES, AXLE ALIGNING *See Alignment Equipment*

GAGES, BRAKE DRUM *See Brake Drum Gages*

GAGES, BRAKE SHOE *See Brake Lining Gages*

GAGES, CYLINDER COMPRESSION *See Compression Gages*

GAGES, DASH BOARD *See item desired*

GAGES, DIAL *See Dial Indicator Gages*

GAGES, VACUUM *See Vacuum Gages*

GAGES GASOLINE *See Fuel Gages (Instrument Panel)*

GAGES LIQUID LEVEL, STORAGE TANK *See Tank Gages, Liquid Level*

GAGES, OIL LEVEL *See Oil Level Gage*

GAGES, OIL PRESSURE *See Oil Pressure Gage*

GAGES, FEELER *See Feeler Gages*

GAGES, THICKNESS OR FEELER *See Feeler Gages*

GAGES, TIRE PRESSURE *See Tire Pressure Gages*

GAGES, WATER TEMPERATURE *See Water Temperature Gage*

GAGES, WHEEL ALIGNING *See Alignment Equipment*

GARAGE DOORS, OVERHEAD *See Doors, Overhead Garage*

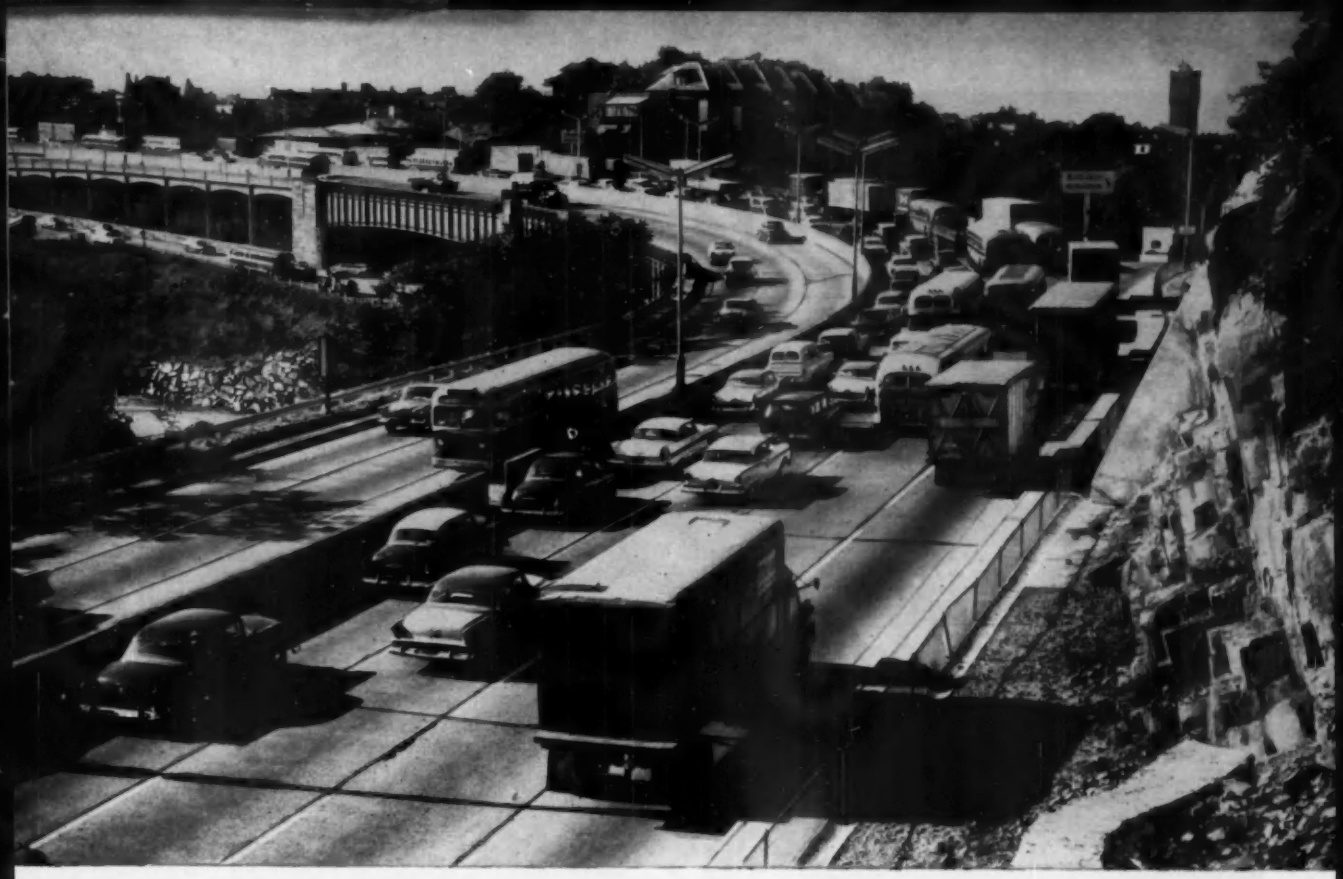
GAS, ACETYLENE *See Acetylene Gas*

GAS, OXYGEN *See Oxygen Gas*

GASOLINE GAGES *See Fuel Gages (Instrument Panel) or Tank Gages (Liquid Level)*

GASKETS

Acadia Div
Acme Mfg & Gasket Co
Advance Felt & Gasket Co
Alloy Mfg Co



B&D Valve Refacers get 'em back on the road faster and keep 'em there!

When trucks, taxis, rental fleets are on the road they're making money and Black & Decker Valve Refacers get 'em there faster—at less cost!

B&D's super-speed air chuck grips and releases valve stems *instantly* for maximum speed, accurate alignment every time. Offset spindle enables grinding of all valve face angles from 0° to 90°. Two motors insure smoothest power, constant speed features like these add up to one big profit-saving fact:

Your equipment is in the shop less time—doesn't come back for expensive "do-it-overs"! See for yourself, in your own shop. Mail coupon for demonstration.

LEADING JOBBERS EVERYWHERE SELL

50th YEAR

Black & Decker®

QUALITY ELECTRIC TOOLS

THE BLACK & DECKER MFG. CO., Dept. 5411
Towson 4, Maryland, (In Canada: Brockville, Ont.)

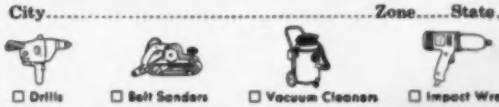
☐ Please arrange a demonstration of B&D Refacers
☐ Please send additional information on _____

Name..... Title.....

Company.....

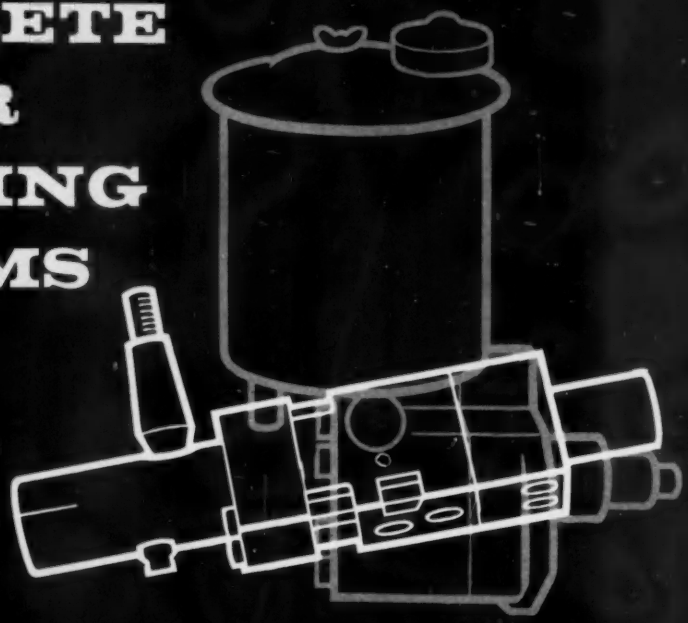
Address.....

City..... Zone..... State.....



☐ Drills ☐ Belt Sanders ☐ Vacuum Cleaners ☐ Impact Wrenches

ONLY VICKERS OFFERS NEW AND COMPLETE POWER STEERING SYSTEMS



Complete System Responsibility

VANE PUMPS FOR BEST OPERATION

The Vickers power steering system utilizes vane pumps designed and built to last much longer than other type pumps. Further, they exert virtually no load on the starter like gear pumps do on those cold morning starts.

WORLDWIDE STOCKS AND INTERCHANGEABILITY

If part of your production goes into export, or if you manufacture abroad, consider this: Vickers products are built in plants throughout the free world . . . and all parts from all plants are completely interchangeable. Wherever your equipment is working, there are Vickers parts nearby.

FOR ALL THE DATA . . .

New bulletin gives complete information on this important breakthrough in power steering design and manufacture. It contains dimensions, ratings and other data so you can draw your own comparisons. Write for Bulletin M5110.

For axle loadings from 1,500 lbs. to 128,000 lbs.

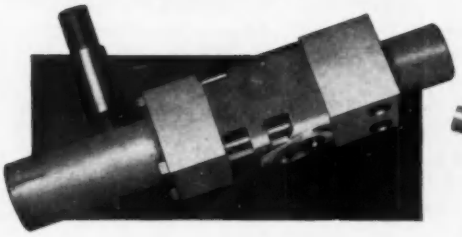
Manufacturers of mobile equipment can now install a completely tailor-made power steering system using standard, production built components. These components are designed to occupy less space because of compact design and high pressure operation (up to 2000 psi). Size for size you get double the thrust for equivalent price.

There are other advantages, too. Your engineering and manufacturing costs are substantially reduced since for all vehicle models you have a matching standard system. Your inventory is reduced because fewer parts are needed and all parts are interchangeable . . . field service is simplified, speeded, too. These parts are all of the same well-engineered construction providing uniform performance and service.

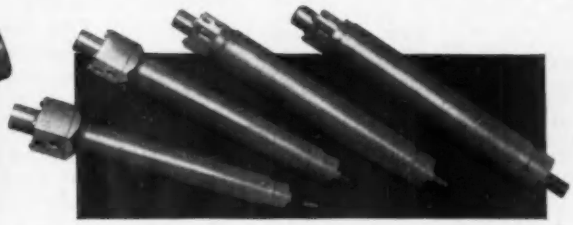
All cylinders are double walled eliminating functional damage to cylinder walls by flying debris, a common hazard.

In addition, when you deal with Vickers you are dealing with a pioneer in power steering . . . a company that maintains a staff of specialists in power steering to serve you. AND, you get the *complete* system from one source . . . Vickers, the name that *makes* the news in fluid power.

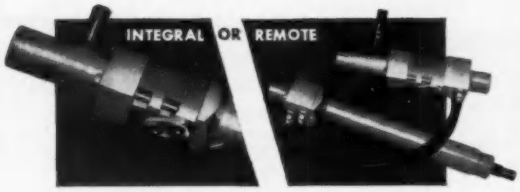
FOR ANY VEHICLE HERE'S HOW SIMPLE IT IS



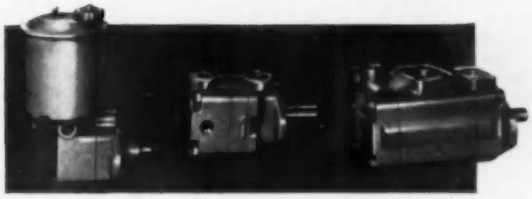
1. You take this **ONE** valve



2. One of **FOUR** cylinders



3. Connect them like this



4. Add one of three pumps

and you have TAILOR-MADE VICKERS® POWER STEERING with STANDARD PRODUCTION-BUILT COMPONENTS

8182

VICKERS INCORPORATED
DIVISION OF SPERRY RAND CORPORATION
Mobile Hydraulics Division
ADMINISTRATIVE and ENGINEERING CENTER
Department 1418 • Detroit 32, Michigan

Application Engineering Offices: • ATLANTA • CHICAGO • CLEVELAND DETROIT • HOUSTON • LOS ANGELES AREA (El Segundo) MINNEAPOLIS • NEW YORK AREA (Springfield, N.J.) • PORTLAND, ORE. SAN FRANCISCO AREA (Berkeley) • TULSA

ALSO SOLD AND SERVICED IN AUSTRALIA, ENGLAND, GERMANY & JAPAN
IN CANADA: Vickers-Sperry of Canada, Ltd., Toronto, Montreal & Vancouver

ENGINEERS AND BUILDERS OF OIL HYDRAULIC EQUIPMENT SINCE 1921

Gaskets to Glass

GASKETS—*continued*

American Felt Co
Anchor Packing Co
ARMSTRONG CORK CO
Auburn Mfg Co
Backstay Welt Co
Beaverite Products Inc
Belmont Smelting & Refinishing Works
Brandywine Fibre Products Co
Buckeye Rubber Products Inc
Burgess Leather Co A E
Chambers Gasket & Mfg Co
CHAMPION SPARK PLUG CO
Chicago-Allis Mfg Corp
Chicago Cork Works Co
Chicago Rawhide Mfg Co
Circle Z
Cleveland Gasket & Mfg Co
Consolidated Packing & Supply Co
Continental-Diamond Fibre Corp
Continental Felt Co
Cooper Mfg Co
Coyne & Paddock Inc
Crane Packing Co
Cranz Co J M
Crotty Corp Automotive Products Div
Darcoid Co
Detroit Gasket & Mfg Co
Division Lead Co
Excelsior Leather Washer Mfg Co
Farnam Co
Felt Products Mfg Co
FITZGERALD MFG CO
Flexrock Co Packing Div
Freeway Washer & Stamping Co
Garlock Packing Co
Gasket Engrg Co
Gasket Packing & Specialty Co
Graton & Knight Co
Green Tweed & Co
International Packing Corp
JOHNS-MANVILLE
Keystone Gasket Mfg Co
Krug Co
Kuehn Co N L
Latex Fiber Industries Inc
Lee Rubber & Tire Corp
Marsh Co Charles W
McCord Corp
Melrath Supply & Gasket Co
Mitchell & Smith Div
Mundet Cork Corp
Penn Fibre & Specialty Co
Philadelphia Gasket & Mfg Co
Polymer Corp
Pressite-Keystone Engrg Products Co
Press Work Inc Lead Alloy Products Div
Raybestos-Manhattan Inc Packing Div
Rhopac Inc
Rogers Corp
Standard Products Co
Superior Wrought Washer
Sutherland Leather & Felt Co
Taylor Fibre Co
Tri-Point Plastics Inc
United Packing & Gasket Engrg Corp
Vellumoid Co
Victor Mfg & Gasket Co
Warehouse Distributing Co
Warren Belting Co
Wilmington Fibre Specialty Co
Wisconsin Gasket & Mfg Co
Wolverine Fabricating & Mfg Co
Wrought Washer Mfg Co

GASKET COMPOUNDS

ARMSTRONG CORK CO
Cabot Inc
Dewey & Almy Chemical Co
DURKEE-ATWOOD CO
Duroyd Gasket & Die Mfg Co
Fidelity Mfg Co
Flexrock Co Packing Div
Hollingshead Corp R M
P O B Mfg Co
Park Chemical Co
Pep Mfg Co
PERMATEX CO
Stanley Co John T
Warehouse Distributors Co

GASOLINE *See Fuels*

GASOLINE ENGINES *See Engines, Gasoline*

GASOLINE FILTERS *See Fuel Filters*

GASOLINE MILEAGE TESTERS *See Tester, Fuel Mileage*

GASOLINE STORAGE TANKS *See Tanks, Fuel Storage*

GASOLINE TANKS, VEHICLE MOUNTED *See Tanks, Fuel Supply*

GASOLINE TANK CAPS, LOCKING *See Caps, Fuel Tank Locking*

GASOLINE TANK SIGNALS *See Signals, Fuel Tank*

GASOLINE TANK VALVES *See Valves, Fuel Tank*

GATES, Truck Folding

Ace Iron Works
Atlas Fence Co
Bustin Steel Products Inc
Logan Co
Roll-O-Matic Chain Co
WATSON CO H S
Zehr Products Co

GEAR PULLERS *See Pullers*

GEARS, FLYWHEEL RING *See Flywheel Ring Gear*

GEARS, LANDING (TRAILER) *See Landing Gears*

GEARS, REAR AXLE *See Axle Ring Gears & Pinions*

GEARS, STEERING *See Steering Gears*

GEARS, TIMING *See Timing Gears*

GEARS, TRANSMISSION *See Transmission Gears*

GENERATORS

GENERATORS, Vehicle

American Bosch Div
American Generator & Armature Co
Arrow Armatures Co
ROBERT BOSCH CORP
Combinator Sales Div
DELCO-REMY DIV
Dole Refrigerating Co
ELECTRIC AUTOLITE CO
General Armature & Mfg Co
GMC Truck and Coach Div
Kurland Combinator
Lane & Beane
LEECE-NEVILLE CO
Midwest Generator Co

GENERATOR OVERDRIVE
(Advertiser Only)

CONSOLIDATED GENERAL PRODUCTS INC

GENERATOR SETS, Portable (including stand-by sets)

Caterpillar Tractor Co
CUMMINS ENGINE CO
Duplex Truck Co
Kohler Co
D W Onan & Sons Inc
Thor Power Tool Co
WAUKESHA MOTOR CO

GENERATOR PARTS

American Motor Products Co
Becker Brothers' Carbon Co
Carbone Co
ELECTRIC AUTOLITE CO
F & B MFG CO
General Electric Co Apparatus Sales Div
Guaranteed Parts Co
HOLLEY CARBURETOR CO
International Products & Mfg Co
Kem Mfg Co
Keystone Carbon Co
Machined Parts Corp
Midwest Generator Co
Morganite Inc
National Ignition Mfg Co
Niehoff & Co C E
Ohio Carbon Co
P & D MFG CO
Paragon Products Corp
Preferred Electric & Wire Co
Pure Carbon Co
Shurhit Products Inc
Sorensen Mfg Co P
Speer Carbon Co
Stackpole Carbon Co
Tasco Products Div
V-J Industries Inc
Valley Forge Products Inc
Wells Mfg Corp
Wheel Parts & Mfg Co

GLASS, Automotive

Auto Glass Mfg Co
Glass Products Inc
Globe Auto Glass Co
LIBBEY-OWENS-FORD GLASS CO
PITTSBURGH PLATE GLASS CO
Protecto Safety Glass Co
Safetee Glass Co
Shatterproof Glass Co

GOVERNORS, Engine

Barbour Stockwell Instruments
HOLLEY CARBURETOR CO
Hoof Products Co
KING-SEELEY CORP
Mallory Electric Corp
Minnesota Automotive Inc
Monarch Governor Co
PERFECT CIRCLE CORP
Pierce Governor Co
Safety Speed Control Co
STEWART-WARNER CORP INSTRUMENT DIV
Woodward Governor Co
Zenith Carburetor Div

GRADERS (Construction & Highway)

(See also Scrapers)

Allis-Chalmers Mfg Co
Austin Western Works Construction Equipment Div
Caterpillar Tractor Co
Huber-Warco Co
LeTourneau-Westinghouse Co
Pettibone Mulliken Corp
Preco Inc

GRAPHITE, Lubricating

A P Parts Corp
Acheson Colloids Co
Boyle-Midway Inc
Bush & Co A G
Dixon Crucible Co
Hill & Griffith Co
Panef Mfg Co
Pettinois Inc George F
Servwell Products Co
Superior Graphite Co
United States Graphite Co

GREASE *See Oils & Lubricants*

GREASE GUNS *See Lubricators*

GREASE REMOVERS *See Cleaning Compounds & Solvents*

GREASE RETAINERS *See Oil Seals*

GRILLE COVERS, RADIATOR *See Radiator Covers*

GRILLES, RADIATOR *See Radiator Grilles*

GRINDERS, BENCH *See Bench Grinders*

GRINDERS, BRAKE DRUM *See Brake Drum Lathes*

GRINDERS, BRAKE LINING AND SHOE *See Brake Lining Grinders*

GRINDERS, CRANKSHAFT *See Crankshaft Grinder*

GRINDERS, CYLINDER *See Boring Bars*

GRINDERS & PLANERS, Engine Head & Block

Carborundum Company The
Lempco Products Inc
VAN NORMAN AUTOMOTIVE EQUIPMENT CO

GRINDERS, PORTABLE ELECTRIC *See Sanders, Portable Electric*

GRINDERS, PORTABLE PNEUMATIC *See Sanders, Portable Pneumatic*

GRINDERS, VALVESEAT *See Valve Seat Grinder*

GRINDING COMPOUNDS, VALVE *See Valve Grinding Compounds*

GUARDS, BUMPER *See Bumper Guards*

GUARDS, RADIATOR, GRILLE *See Radiator Grille Guards*

GUARDS, SPLASH *See Splash Guards*

GUARDS, TIRE INFLATING *See Tire Inflating Guards*

GUIDES, VALVE *See Valve Guides*

HAMMERS, Portable Electric

BLACK & DECKER MFG CO
Millers Falls Co
Milwaukee Electric Tool Co
Stanley Electric Tool Div
Syntron Co
Thor Power Tool Co

HAMMERS, Portable Pneumatic

Chambersburg Engineering Co
CHICAGO PNEUMATIC TOOL CO
Erie Foundry Co
Gardner-Denver Co
INGERSOLL-RAND CO
Master Pneumatic Tool Co
Mead Specialties Co
Superior Pneumatic and Mfg Inc
Thor Power Tool Co
United Engrg & Fdry Co
WATERVLIET TOOL CO
Williams White & Co

HAND CLEANERS *See Cleaning Compounds and Solvents*

HAND TOOLS *See Tools, Hand*

HAND TRUCKS

Aerol Co
American Pulley Co
Angle Steel Inc
Automatic Transportation Div
Barrett-Cravens Co
Bernard Fanklin Co
Bernard Gloekler North East Co
Big Joe Mfg Co
BISHMAN MFG CO
Blitz Electric Co
Brooks & Perkins Inc

For addresses of manufacturers, see the new special section starting on **page 199**

Burdett Oxygen Co
Buschman Co
Can Tool Co
Clark Co
CLARK EQUIPMENT CO
Clinton Products Co
Colson Corp
Continental Diamond Fibre Corp
Dico Co
Durlach Can & Iron Works
Excelsior Plimtruck Co
Factory Service Co
Fairbanks Co
French & Hecht Div
Hamilton Caster & Mfg Co
Howell Industrial Truck Co
Jakes Foundry Co
Koehring Co
Lansing Co
Lewis-Shepard Products Inc
Magline Inc
Magnesium Co
Mercury Mfg Co
Monroe Mfg Co
National Vulcanized Fibre Co
Nutting Truck & Caster Co
Orangeville Mfg Co
Rapids-Standard Co
Raymond Corp
Rolack Inc
Rush Mfg Co
Sabin Machine Co
Sage Equipment Co
Saginaw Products Corp
Selma Trailer & Mfg Co
Skarnes Engrg & Supply Inc
Standard Pressed Steel Co
Thomas Truck & Caster Co
Towmotor Corp
Wellington Machine Co
West Bend Equipment Corp
Western Gear Corp
Yale & Towne Mfg Co

HARDWARE, BUS *See Bus Hardware*

HARDWARE, TRUCK BODY *See Body Hardware*

HEADLIGHT DIMMERS *See Switches, Headlight Dimmers*

HEADLIGHT TESTERS *See Testers, Headlight*

HEAT EXCHANGERS

Dole Refrigerating Co

HEAT GAGE *See Water Temperature Gage*

HEATERS

HEATERS, Bus

Arvin Industries Inc
EVANS PRODUCTS CO HEATING AND VENTILATING DIV
HUNTER MFG CO
KYSOR HEATER CO
Perfection Industries Inc
Preco Inc
Surface Combustion Corp Div
Truck & Coach Heater Mfg Co
Vapor Heating Corp

Heaters, Cargo to Horns, Air

HEATERS, Cargo

American Gas Machine Co Div
Anchor Post Products Inc
Auto Body Works
Cargo Guard Inc
Elston Co
EVANS PRODUCTS CO
FRUEHAUF TRAILER CO
G & O Mfg Co
HUNTER MFG CO
HUPP CORP MOBILE PRODUCTS DIV
Knowles-Fisher Corp
Laharco Industries Inc
Luminator Inc
Perfection Industries Inc
Preco Inc
South Wind Div
Truck & Coach Heater Mfg Co
Vapor Heating Corp

HEATERS, Engine Pre-Heating

AUTAC INC
Five Star Mfg Co
KIM HOTSTART MFG CO
Laharco Industries Inc
Perfection Industries Inc Div
PHILLIPS MFG CO
South Wind Div
STOW MFG CO
TECH PRODUCTS INC
THERMO-TEMP INDUSTRIES INC
Universal Engine Heater Co
Vapor Heating Corp
Young Radiator Co

HEATERS, Paint, Hot Spray

Beck Equipment Co
Binks Mfg Co
De Vilbiss Co
Dualheet Inc
Nordson Corp
Pol-Flo Paint Sprayer Corp
Spee-Flo Mfg Corp
Thermalcup Inc

HEATERS, Parking Lot

Vapor Heating Corp

HEATERS, Truck Cab

Arvin Industries Inc
Bishop & Babcock Mfg Co
Chicago Mfg Co
Eaton Mfg Co Heater Div
EVANS PRODUCTS CO HEATING & VENTILATING DIV
Ha Dees Heater Products Huppower Div
HARRISON RADIATOR DIV
HUNTER MFG CO
KYSOR HEATER CO
Perfection Industries Inc
Schofield Inc E L
South Wind Div
Surface Combustion Corp Div
Truck & Coach Heater Mfg Co

HEATER HOSE *See Hose, Heater*

HEATER SWITCHES *See Switches, Heater*

HEATING LAMPS *See Lamps, Drying*

HELPER SPRINGS *See Springs, Helper*

HILL HOLDERS *See Brake Locks, Hill Holder*

HITCHES, TRAILER *See Trailer Hitches*

HOISTS, MONORAIL *See Cranes, Monorail*

HOISTS, Chain or Cable (Manual)

Baker Mfg Co (Mich)
BLACKHAWK MFG CO AUTOMOTIVE DIV
Bradney Machine Co
Chester Hoist Div
Chisholm-Moore Hoist Corp Div
Cleveland Crane & Engineering Co
Coffing Hoist Div
Columbus McKinnon Chain Corp
Harrington Co
Hobb Co Clinton E
Hyster Co
Industrial Crane & Hoist Ingersoll Products Div
Lempco Products Inc
Lewis-Shepard Products Inc
Manley Div Douglas Motors Inc
Manzel Unit
National Screw & Mfg Co
Ohio Hoist & Mfg Co
Reading Crane & Hoist Corp
Robbins & Myers Inc
Roeper Crane & Hoist Works
Round & Son David
Sasgen Derrick Co
Shaw Box Crane & Hoist Div
Speidel Elevator Corp
STAR MACHINE & TOOL CO
Unit Mfg Co
U S Chemical & Supply Co
Wright Hoist Div
Yale & Towne Mfg Co

HOISTS, Chain or Cable, Electric

American Engineering Co
Barrett-Cravens Co
BLACKHAWK MFG CO AUTOMOTIVE DIV
Chester Hoist Div
Chisholm-Moore Hoist Div
Cleveland Crane & Engineering Co
Coffing Hoist Div
Conco Engineering Works Div
Detroit Hoist & Machine Co
Electro Lift Inc
Harnischfeger Corp Industrial Div
Harrington Co
Northern Engineering Works
Ohio Hoist Mfg Co
Reading Crane & Hoist Corp
Robbins & Myers Inc
Round & Son David
Sasgen Derrick Co
Shaw Box Crane & Hoist Div
Shepard Niles Crane & Hoist Corp
Thomas Hoist Co
Wright Hoist Div
Yale Materials Handling Div

HOISTS, Chain or Cable, Pneumatic

ARO EQUIPMENT CORP
CHICAGO PNEUMATIC TOOL CO
Coffing Hoist Div
Detroit Hoist & Machine Co
Gardner-Denver Co
Holmes Co Ernest
INGERSOLL-RAND CO
Northern Engineering Works
Platz Co
Thor Power Tool Co

HOISTS, TRUCK BODY *See Body Hoists*

HOISTS, VEHICLE LIFTING *See Lifts*

HOLDERS, ELECTRODE *See Welders & Equipment*

HOLDERS, Air Brake Hose

BENDIX WESTINGHOUSE AUTOMOTIVE AIR BRAKE CO
BERG MFG & SALES CO
Columbus Industries
Edward's Air Hose Bracket Co
Vari-Products Co
Velvac Inc

HOLDERS, LOAD *See Load Binders*

HONES, CYLINDER *See Cylinder Hones*

HONES, Small Bore (For Piston Pins, Brake Cylinders, Bushings, Etc.)

Ammco Tools Inc
BARRETT EQUIPMENT CO
Beard Tool Co L O
Dow Mechanical Corp
Hall-Toledo Inc
Herbrand Div
Kent-Moore Organization Inc
Kennedy Service Tools Co
Keystone Reamer & Tool Co
Lempco Products Inc
Lisle Corp
Micromatic Hone Corp
New Britain Machine Co Hand Tool Div
Precision Hone Co
Reasor Mfg Co
SNAP-ON TOOLS CORP
Staple Engineering Co
SUNNEN PRODUCTS CO

HOOKS, TOWING *See Towing Hooks*

HORNS, Air

BENDIX-WESTINGHOUSE AUTOMOTIVE AIR BRAKE CO
Buell Mfg Co
ELECTRIC AUTOLITE CO

Grover Products Co
Hadley Mfg Co
Kahlenberg Bros Co
Sparton Automotive Div
Trico Products Co
WAGNER ELECTRIC CORP
Western Products
Yoder Mfg Co

HORNS, Electric

ROBERT BOSCH CORP
DELCO-REMY DIV
Edwards Co
ELECTRIC AUTOLITE CO
Jubilee Mfg Co
Sparton Automotive Div
Yoder Mfg Co

HORNS, Siren (For Emergency Vehicles)

American-La France-Foamite Corp
Federal Sign & Signal Corp
Sireno Co

HORNS, Vacuum Operated

Grover Products Co
Hadley Mfg Co
Trico Products Corp
Yoder Mfg Co

HORN RELAYS *See Relays, Electrical*

HOSE

HOSE, Air Brake

Acme Rubber Mfg Co
American Coupling Co
Anchor Coupling Co
AEROQUIP CORP
BENDIX PRODUCTS DIV
BENDIX WESTINGHOUSE AUTOMOTIVE AIR BRAKE CO
Boston Woven Hose & Rubber Co
Crown Products Co
DURKEE-ATWOOD CO
Electric Hose & Rubber Co
FAWICK BRAKE DIV
GATES RUBBER CO
GOODYEAR TIRE & RUBBER CO
GREY-ROCK DIV
Haywood Industries
Hewitt-Robbins Inc
IMPERIAL BRASS MFG CO
LEE RUBBER & TIRE CORP
LINCOLN ENGINEERING CO DIV
Strataflex Inc
Thermoid Div
Velvac Inc
WAGNER ELECTRIC CORP
WEATHERHEAD CO FT WAYNE DIV

HOSE, Air (For Shop)

Acme Air Appliance Co
Acme Rubber Mfg Co
AEROQUIP CORP
ALEXANDER-TAGG INDUSTRIES INC
Anaconda Metal Hose Div
Asbestos Mfg Co
Atlantic Metal Hose Co
Balcrank Inc
Binks Mfg Co
Boston Woven Hose & Rubber Co
Buckeye Rubber Products Inc
CHICAGO PNEUMATIC TOOL CO
Co-Operative Industries Inc
Crown Products Co
Dallas Mfg & Sales Co
DAYTON RUBBER CO
D'Nomlart Inc
DeVilbiss Co
DURKEE-ATWOOD CO
Electric Hose and Rubber Co
FAWICK BRAKE DIV
Flexico Products Inc
Flexonics Corp
Foysyth Metal Goods Co
Gabriel Co
GATES RUBBER CO
GOODYEAR TIRE & RUBBER CO
Haywood Industries
Hewitt-Robins Inc
Hite Mfg Co
International Metal Hose Co
LEE RUBBER & TIRE CORP
LINCOLN ENGRG CO
Metal Hose & Tubing Co
Mulconroy Co
Peters & Russell Inc
Remaco Inc
Revere Copper & Brass Inc
Ridbo Laboratories Inc
Ryder Mfg Co
A SCHRADER'S SON DIV
Swan Rubber Co
THERMOID DIV
Thor Power Tool Co
Titeflex Inc
UNITED STATES RUBBER CO
Universal Metal Hose Co
WEATHERHEAD CO FT WAYNE DIV

HOSE CLAMPS

American Stamping Co
Anchor Coupling Co
Araco Mfg Sales Co
Attwood Brass Works Inc
BENDIX WESTINGHOUSE AUTOMOTIVE AIR BRAKE CO
Binks Mfg Co
BREEZE CORP INC

For addresses of manufacturers, see the new special section starting on **page 199**

Brewer-Titchener Corp
Champ-Items Inc
CHICAGO PNEUMATIC TOOL CO
Corbin Hose Clamp Div
DORMAN PRODUCTS INC
Eastman Mfg Co
Eaton Mfg Co Reliance Div
EIS AUTOMOTIVE CORP
EVERHOT PRODUCTS CO
Garrett Co George K
Hansen Mfg Co
Hunt & Son C B
IDEAL CORP
INGERSOLL-RAND CO
LINCOLN ENGINEERING CO DIV
Loock & Co R J
Mulconroy Co
Murray Corp
Perfect Parts Inc
Perma-A Mfg Co
Pollak Corp Joseph
Sherman Mfg Co H B
Thor Power Tool Co
Tinnerman Products Inc
Turner Mfg Co
United Steel & Wire Co
Victor Instrument Mfg Co
Wickwire Spencer Steel Div
Wittek Mfg Co

HOSE, GASOLINE *See Fuel Lines, Flexible*

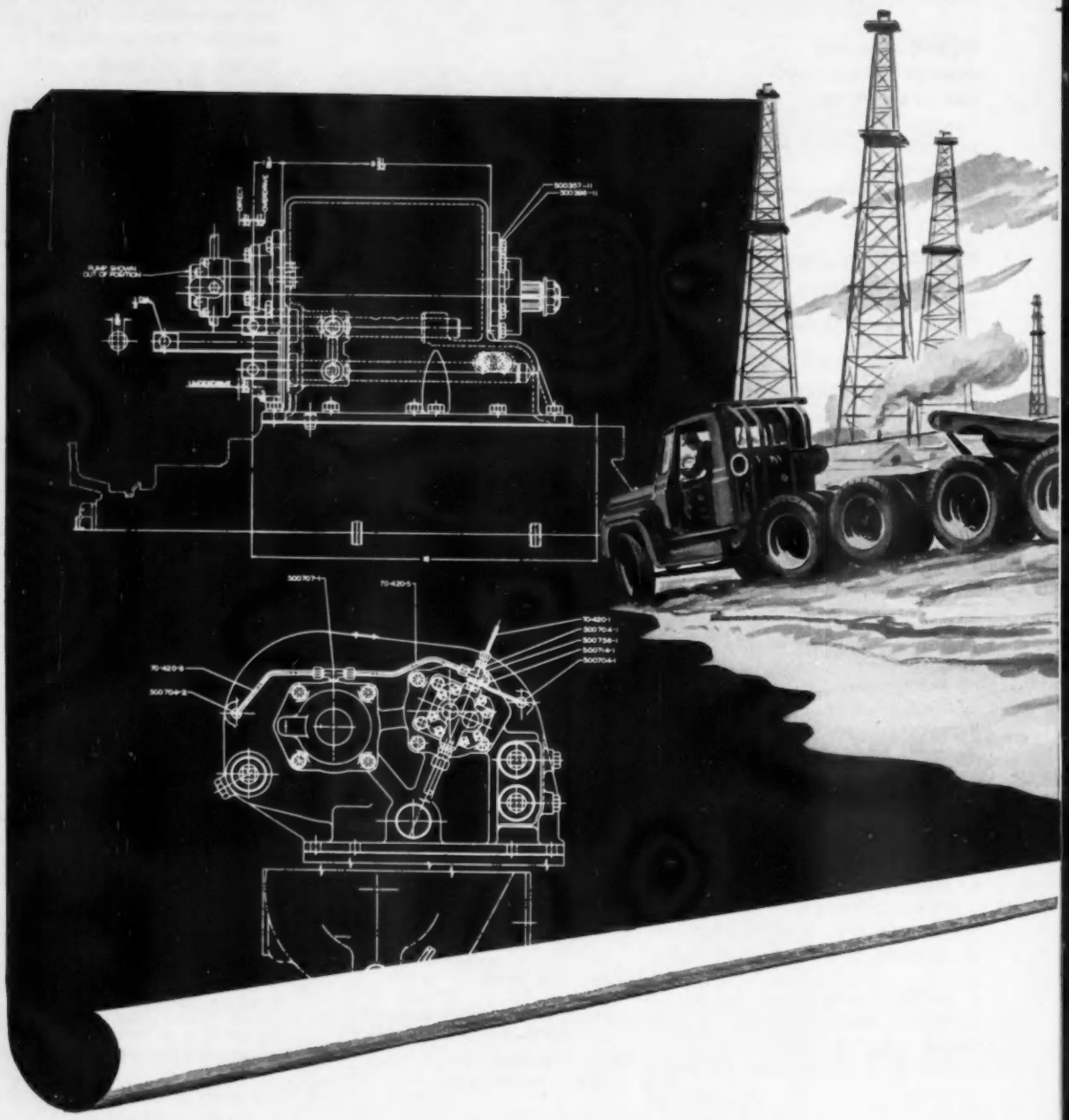
HOSE, Grease & Oil

Adams Grease Gun Corp
AEROQUIP CORP
Anchor Coupling Co
Balcrank Inc
Eastman Mfg Co
Edelmann & Co E
GATES RUBBER CO
Gray Co
Haywood Industries
IMPERIAL BRASS MFG CO
LINCOLN ENGRG CO
Reda-Turner Mfg Co
Republic Rubber Div
Swan Rubber Co
THERMOID DIV
UNITED STATES RUBBER CO
Universal Lubricating Systems Inc
WEATHERHEAD CO FT WAYNE DIV

HOSE, Heater

Acme Rubber Mfg Co
Boston Woven Hose & Rubber Co
Buckeye Rubber Products Inc
Crown Products Co
Dallas Mfg & Sales Co
DAYTON INDUSTRIAL PRODUCTS CO
DAYTON RUBBER CO
DURKEE-ATWOOD CO
Electric Hose and Rubber Co
FIRESTONE TIRE AND RUBBER CO

NEW SPICER PTO HAS CAPACITY FOR HEAVY



GREATER DUTY WORK

●Rugged, round-the-clock service, where full engine torque is a "must", calls for a top-mounted PTO with the capacity to transmit that torque constantly and smoothly. Whether the vehicle is an oil field rig, a cement mixer truck, or a sand and gravel dump, the job can be done at highest operating efficiency with a Spicer forced-feed, top-mounted power take-off.

The Spicer top-mounted PTO—with either a Spicer 8031 or 8341 auxiliary transmission—outlasts conventional PTO's because positive lubrication is assured at all times, regardless of the operating angle of the vehicle. An oil pump provides forced-feed lubrication at slow speeds with full engine torque.

Spicer top-mounted power take-offs transmit the full torque of the engine with forward transmission in direct drive, or loads equivalent to engine torque with forward transmission in gear, to operate air compressors, heavy duty winches, large pumps and other equipment. Two speeds forward, one speed reverse.

Where definite torque rating of the Spicer PTO is desired, Dana engineers will gladly submit this information upon receipt of complete data on the installation and type of operation.

For further information write Dana Corporation, Toledo 1, Ohio.

DANA Spicer

DANA CORPORATION

Toledo 1, Ohio

Serving Transportation—Transmissions • Auxiliaries • Universal Joints • Clutches • Propeller Shafts • Power Take-Offs
Torque Converters • Axles • Powr-Lok Differentials • Gear Boxes • Forgings • Stampings • Frames • Railway Drives
Many of these products are manufactured in Canada by Hayes Steel Products Limited, Merriton, Ontario

Hose to Hydraulic Pumps & Motors

HOSE, Heater—*continued*

GATES RUBBER CO
GREY ROCK DIV
Haywood Industries
Hewitt-Robins Inc
Holfast Rubber Co
LEE RUBBER & TIRE CORP
Ridho Laboratories Inc
Standard Products Co
Swan Rubber Co
THERMOID DIV
UNITED STATES RUBBER CO
WEATHERHEAD CO FORT WAYNE DIV

HOSE, Hydraulic Brake

Acme Rubber Mfg Co
AEROQUIP CORP
Anchor Coupling Co
EIS AUTOMOTIVE CORP
EVERHOT PRODUCTS CO
Excello Accessories Mfrs Inc
FAWICK BRAKE DIV
Flexonics Corp
Flex-O-Tube Div
GATES RUBBER CO
GOODYEAR TIRE & RUBBER CO
Grizzly Mfg Co
Inland Mfg Div
LEE RUBBER & TIRE CORP
Lisle Corp Brake Div
Master Parts Div
Motive Equipment Mfrs Inc
Mulconroy Co
National Ignition Mfg Co
Planet Metal Products Corp
Preferred Electric & Wire Co
Stratoflex Inc
THERMOID DIV
UNITED MOTORS SERVICE
UNITED STATES RUBBER CO
WAGNER ELECTRIC CORP
WEATHERHEAD CO FT WAYNE DIV
WOHLERT CORP

HOSE, Radiator

Acme Rubber Mfg Co
Anchor Packing Co
Asbestos Mfg Co
Badger Mfg Corp
Buckeye Rubber Products Inc
Crown Products Co
Crushproof Tubing Co
Dallas Mfg & Sales Co
DURKEE-ATWOOD CO
DAYTON INDUSTRIAL PRODUCTS CO
DAYTON RUBBER CO
DURKEE-ATWOOD CO
EGAN MFG CO H B
EVERHOT PRODUCTS CO
FIRESTONE INDUSTRIAL PRODUCTS CO
FIRESTONE TIRE AND RUBBER CO
Globe Rubber Products
GOODYEAR TIRE & RUBBER CO
Haywood Industries
IMPERIAL BRASS MFG CO
JOHNS-MANVILLE
Mercer Rubber Co
Metal Hose and Tubing Co
MOBIL OIL CO
Moore & Co Samuel
Ohio Rubber Co
Rawhide Products Co
Ridho Laboratories Inc
Rubbercraft Corp of Cal Ltd
Snyder & Son Inc M L
THERMOID DIV
UNITED STATES RUBBER CO

HOSE, Refrigerator

AEROQUIP CORP
Dole Refrigerating Co
FAWICK BRAKE DIV
IMPERIAL BRASS MFG CO
LEE RUBBER & TIRE CORP
THERMOID DIV
WEATHERHEAD CO FORT WAYNE DIV

HOSE, Vacuum Brake

Acme Rubber Mfg Co
AEROQUIP CORP
Asbestos Mfg Co
BENDIX PRODUCTS DIV
Boston Woven Hose & Rubber Co
Dallas Mfg & Sales Co
DAYTON INDUSTRIAL PRODUCTS CO
DURKEE-ATWOOD CO
EIS AUTOMOTIVE CORP
Electric Hose and Rubber Co
FAWICK BRAKE DIV
GATES RUBBER CO
GOODYEAR TIRE & RUBBER CO
Haywood Industries
Hewitt-Robins Inc
IMPERIAL BRASS MFG CO
LEE RUBBER & TIRE CORP
THERMOID DIV
UNITED STATES RUBBER CO
Velvac Inc
WEATHERHEAD CO FORT WAYNE DIV

HOSE, Vacuum

Acme Rubber Mfg Co
AEROQUIP CORP
BENDIX PRODUCTS DIV
Bowling Green Rubber Co
Buckeye Rubber Products Inc
Crown Products Co
Dallas Mfg & Sales Co
DAYTON INDUSTRIAL PRODUCTS CO
DURKEE-ATWOOD CO
FAWICK BRAKE DIV
GATES RUBBER CO
Globe Rubber Products Corp
GOODRICH TIRE CO B F
GOODYEAR TIRE & RUBBER CO
Kravex Mfg Corp
LEE RUBBER & TIRE CORP
RAYBESTOS DIV
Serwell Products Co
THERMOID DIV
Trico Products Corp
Victor Instrument Mfg Co
Warehouse Distributing Co
WEATHERHEAD CO FORT WAYNE DIV

HOSE, Welding

Acme Rubber Mfg Co
AEROQUIP CORP
Air Reduction Sales Co
Boston Woven Hose & Rubber Co
Burdett Oxygen Co of Cleveland Inc
Continental Rubber Works
DAYTON INDUSTRIAL PRODUCTS CO
Electric Hose and Rubber Co
FAWICK BRAKE DIV
GATES RUBBER CO
Haywood Industries
Hewitt-Robins Inc
LINDE CO
Manhattan Rubber Div
MONARCH ROAD MACHINERY
Mulconroy Co
National Cylinder Gas Div
Republic Rubber Div
Smith Welding Equipment Corp
Snyder & Son Inc M L
THERMOID DIV
UNITED STATES RUBBER CO

HUBODOMETER

ACTUATOR PRODUCTS CORP
ENGLER INSTRUMENT CO

HUBS, WHEEL *See Wheel Hubs*

HUMIDITY REGULATORS, Paint Shop

Bristol Co
Minneapolis-Honeywell Regulator Co Industrial Div
The Partlow Corp
Powers Regulator Co
Weston Instruments Div

HYDRAULIC TOOLS & EQUIPMENT *See Products Desired*

HYDRAULIC PUMPS & MOTORS

Aero Mfg & Machining Co

Barnes Corp John S
Berry Hydraulic Div
Char-Lynn Co
Commercial Shearing & Stamping Co
Denison Engrg Div
Eastern Industries Inc
Eaton Mfg Co Pump Div
Gerotor May Corp
Hydraulic Press Mfg Co
Hy-Lo-Jack
MONARCH ROAD MACHINERY CO
Muncie Parts Mfg Co
New York Air Brake Co
Oilgear Co
Owatonna Tool Co
Roper Hydraulics Inc
SCHWITZER CORP
SUNDSTRAND HYDRAULIC DIV (Constant speed for refrigeration units)
Thompson Products Inc Michigan Div
Tuthill Pump Co
VICKERS INC MOBILE HYDRAULICS DIV
Webster Electric Co
Wisconsin Hydraulics Inc
Wooster Div Borg-Warner Corp

HYDROMETERS, Battery & Coolant

Beck Glass Blowing Co
BISHMAN MFG CO
Chaslyn Co
Christie Electric Corp
Edelmann & Co E
EXIDE AUTOMOTIVE DIV
Freas Glass Works Francis L
General Scientific Equipment Co
IMPERIAL BRASS MFG CO
Kennedy Service Tools Co
Kimble Glass Co
Kocour Co
Murray Corp
Precision Thermometer & Instrument Co
Preferred Electric & Wire Co
Taylor Instrument Companies
Victor Instrument Mfg Co
Western Electrical Instruments Div
WILLARD STORAGE BATTERY DIV

IGNITION

IGNITION CABLE

American Electric Cable Co
BELDEN MFG CO
BERG MFG & SALES CO
Crescent Co
Del City Wire Co
ELECTRIC AUTOLITE CO
Essex Wire Corp
Flexo Wire Div
Freedco Products Inc
General Cable Corp
Jordan Electrical Products Div
Monarch Insulated Wire Co
PACKARD ELECTRIC DIV
Realflex Products Co
Royal Electric Corp
Sittler Corp
Sorenson Mfg Co P
STANDARD MOTOR PRODUCTS INC
Triple-A-Specialty Co
UNITED MOTORS SERVICE
Velvac Inc
Walker Bros Automotive Wire & Cable Div
Whitaker Cable Corp
WILLARD STORAGE BATTERY DIV

IGNITION COILS

American Motor Products Co
Andrew Parts Mfg Co
ROBERT BOSCH CORP
Crumbliss Mfg Co
DSM Electric Co
DELCO-REMY DIV
ECHLIN MFG CO
ELECTRIC AUTOLITE CO
F & B MFG CO
Freedco Products Inc
Guaranteed Parts Co
HOLLEY CARBURETOR CO
Kem Mfg Co
M D Parts Mfg Co
Machined Parts Corp
Mallory Electric Corp
National Ignition Mfg Co
New York Coil Co
Niehoff & Co C E
P & D MFG CO
Paragon Products Corp
Preferred Electric & Wire Co
R B M Div
Shurhit Products Inc
Sorenson Mfg Co P
STANDARD MOTOR PRODUCTS INC
Stan-Test Corp
Tasco Products Div
Tungsten Contact Mfg Co
UNITED MOTORS SERVICE
Valley Forge Products Co
Wells Mfg Corp
Wheel Parts & Mfg Co
Wilco Electric Co

IGNITION CONDENSER TESTERS

Auto-Test Inc
Cornwell Quality Tools Co
Harvey E Hanson Co
Kennedy Service Tools Co
King Electric Equipment Co
SNAP-ON TOOLS CORP
STANDARD MOTOR PRODUCTS INC
Sun Electric Corp

For addresses of manufacturers, see the new special section starting on **page 199**

IGNITION DISTRIBUTORS

ROBERT BOSCH CORP
DELCO-REMY DIV
ECHLIN MFG CO
ELECTRIC AUTOLITE CO
Freedco Products Inc
HOLLEY CARBURETOR CO
King Electric Equipment Co
Mallory Electric Corp
Paragon Products Corp
Shurhit Products Inc
Wico Electric Co

IGNITION DISTRIBUTOR TESTERS

AC SPARK PLUG DIV
Allen Electric & Equipment Co
Auto-Test Inc
DAYTON STEEL FOUNDRY CO THE
Electro Products Co
Empire Electronics
Fox Valley Instrument Co
Herbrand Div
Kennedy Service Tools Co
Motoraide Corp
Price Instrument Engineering Co Inc
SNAP-ON TOOLS CORP
Sun Electric Corp
Weidenhoff Corp
Wells Mfg Corp

IGNITION PARTS

American Hard Rubber Co Div
American Motor Products Co
American Platinum Works
Andrew Parts Mfg Co
ROBERT BOSCH CORP
D S M Electric Co
Del City Wire Co
DELCO-REMY DIV
ECHLIN MFG CO
ELECTRIC AUTOLITE CO
F & B MFG CO
Fausteel Metallurgical Corp
Freedco Products Inc
Glipak Automotive Products Div
Gries Reproducer Corp
Guaranteed Parts Co
HOLLEY CARBURETOR CO
Igniter Co
JORIN SPECIALTY CO
Kem Mfg Co
Keystone Carbon Co
Lion Auto Parts & Mfg Co
M D Parts Mfg Co
Machined Parts Corp
Mallory Electric Corp
Mallory & Co P R
National Ignition Mfg Co
New York Coil Co
Niehoff & Co C E
P & D MFG CO
Paragon Products Corp
Parts Mfg Co
Perfection Automotive Products Corp
Preferred Electric & Wire Co

Ignition Spray to Jacks

IGNITION PARTS—*continued*

Sheel Parts & Mfg Co
Shurhit Products Inc
Sorenson Mfg Co
Specialty Insulation Mfg Co
Speer Carbon Co
Sprague Electric Co
Springfield Electrical Specialties Inc
STANDARD MOTOR PRODUCTS INC
Stare-Test Corp
Tasco Products Inc
Tungsten Contact Mfg Co
Valley Forge Products Inc
Wells Mfg Corp
Wico Electric Co
Wilson Co H A

IGNITION SPRAY

(Advertisers Only)
SHERWIN-WILLIAMS CO
STANDARD MOTOR PRODUCTS INC

IGNITION SWITCHES *See Switches, Ignition*
IGNITION SWITCHES, CUT-OFF *See Switches, Ignition Cut-Off*
IGNITION TOOLS *See Tools, Ignition*
INDICATING THERMOMETERS *See Thermometers*
INDICATORS, CARBON MONOXIDE *See Alarms, Carbon Monoxide*

INDICATORS, Dump Body Angle

Monroe Standard Inc

INDICATING SIGNALS *See Signals*
INFLATORS, TIRE *See Tire Inflators*
INHIBITORS, RUST RADIATOR *See Radiator Rust Inhibitors*

INJECTORS, Fuel

Allyn Mfg Co
American Bosch Div
ROBERT BOSCH CORP
CAV Fuel Injection Equipment Div
GENERAL MOTORS CORP DIESEL EQUIPMENT DIV
Hancock Diesel Service Co
HARTFORD MACHINE SCREW CO
HOLLEY CARBURETOR CO
Marvel-Schebler Products Div
ROCHESTER PRODUCTS DIV
Scintilla Div
Simmonds Aerocessories Inc

INJECTOR SERVICE TOOLS

BACHARACH INDUSTRIAL INSTRUMENT CO
ROBERT BOSCH CORP
Kent-Moore Organization Inc

INJECTORS, Water (For Gasoline Engine)

American Octanator Corp
Waag Enterprises

INSERTS, VALVE SPRING *See Valve Spring Inserts*
INSERTS THREADED *See Threaded Inserts*
INSTRUMENTS *See item desired*

INSULATION, Electrical Parts (Liquid)

Barton Products Co
Boruski Jr Ernest F
Champion Bronze Powder & Paint Co
Chemical Products Corp
Dow Corning Corp
Dupli-Color Products Co
Ensign Products Co
Heet Div
Ignition-Ite Products Co
Krylon Inc
Lee Polish Mfg Co
Plasti-Kote Inc
Porter Mfg & Supply Co
Radiator Specialty Co
Reynolds Ink Inc
V-O Mfg Co
Warehouse Distributing Co
Wolfe-Kote Co
Zip Abrasive Co

INSULATION, Body

American Hair & Felt Co
ARMSTRONG CORK CO
Arvey Corp
Auburn Mfg Co
Barley-Earhart Corp
Brandywine Fibre Products Co
Burlington Mills Inc
Cellusede Products Inc
Detroit Gasket & Mfg Co
Dow Chemical Co
Flintkote Co
Franklin Fibre-Lamitex Corp
Gustin-Bacon Mfg Co
JOHNS-MANVILLE
Keystone Roofing Mfg Co
NATIONAL ANILINE DIV
National Vulcanized Fibre Co
Owens-Corning Fiberglass Corp
PITTSBURGH PLATE GLASS CO FIBER GLASS DIV
Plant Maintenance Inc Truck Floor Div
REEVES BROTHERS INC
Rubatex Div
Seaman Products Div
Silvercote Products Inc
Spaulding Fibre Co
Taylor Fibre Co
UNITED STATES RUBBER CO
Western Felt Works
Wilmington Fibre Specialty Co
Wood Conversion Co

INTAKE MANIFOLDS *See Manifolds*
IRONS, SOLDERING, *See Soldering Irons*

JACKS, Transmission

Air Hydraulic Inc
Ajax Mfg Co of Wis
AUTO SPECIALTIES MFG CO INC
BLACKHAWK MFG CO
Cleveland Pneumatic Tool Co
HEIN-WERNER CORP
Kent-Moore Organization Inc
Manzel Unit
Miller Mfg Co
Stephenson Industries Inc
Walker Mfg Co of Wis
WEAVER MFG CO
Wudel Mfg Co Edmond J

JACKS, Hydraulic (Shop)

Ajax Mfg Corp of Wisconsin
AUTO SPECIALTIES MFG CO
Bee-Line Co
Big Joe Mfg Co
BLACKHAWK MFG CO
Brown Controls Co
Crown Controls Co
Edgewater Automotive Div
HEIN-WERNER CORP
Holan Corp
JACK-PACK MFG CO
Joyce-Cridland Co
Jubilee Mfg Co
Kingston Products Corp
March Engrg Co
Manley Mfg Div
Manzel Unit
Milwaukee Hydraulic Products Corp
Owatonna Tool Co
Reliable Jack Div
R U Jack Corp
Scott-Atwater Mfg Co
SNAP-ON TOOLS CORP
Star Jack Co
Stephenson Foundry & Mfg Co
Templeton Kenly & Co
Vulcan Mfg Co
Walker Mfg Co of Wis
WEAVER MFG CO
Wilson Inc K R
Zamax Mfg Co

JACKS, Mechanical (Shop)

Aircapitol Mfrs Inc
Ajax Mfg Corp of Wisconsin
Automatic Steel Products Inc. Spun Steel Div
AUTO SPECIALTIES MFG CO
BLACKHAWK MFG CO
Caster Mold & Machine Co
Dalton Foundries Inc
Duff-Norton Co
HEIN-WERNER CORP
Hyde Park Iron Works Co
Kent-Moore Organization Inc
Peterson Mfg Co
Ryerson & Haynes Inc
Sal Metal Products Co
Shaw Co Joseph
So-Lo Jack Co
Templeton Kenly & Co
Triangle Jack Co

Vulcan Mfg Co
Universal Tool & Stamping Co
Walker Mfg Co of Wis

WEAVER MFG CO

Woodworth Corp C B

JACKS, Portable, Air

Automotive Equipment Mfg Co
Bay Mfg Div

BLACKHAWK MFG CO

BRANICK MFG CO INC

CHICAGO PNEUMATIC TOOL CO

HEIN-WERNER CORP

Highland Machine Co

HUNTER ENGRG CO

Hypressure Jenny Div
Joyce-Cridland Co
Lewis-Shepard Products Inc
Walker Mfg Co of Wis

WATERVLIET TOOL CO

WEAVER MFG CO

JIGS, CONNECTING ROD ALIGNING *See Connecting Rod Aligning Jigs*

JIGS, RING GEAR RIVETING *See Ring Gear Riveting Jig*

JOINTS, UNIVERSAL *See Universal Joints*

KEYS, VALVE STEM *See Valve Stem Keys*

KING PINS *See Front End Suspension Parts*

LAQUERS *See Paints*

LAMPS

LAMP BULBS, Miniature

GENERAL ELECTRIC CO MINIATURE LAMP DEPT

Hudson Lamp Co
Matchless Electric Co

MOBIL OIL CO

NATIONAL CARBON CO DIV

Penetray Corp
Save Lamp Co
Sylvania Electric Products Inc Lighting Div

TUNG-SOL ELECTRIC INC

UNION CARBIDE CONSUMER PRODUCTS CO DIV

WESTINGHOUSE ELECTRIC CORP LAMP DIV

LAMPS, Back-Up, Clearance, Dome, Tail, Parking & Stop

American Automatic Devices Co

ANTHES FORCE OILER CO

Apco Mossberg Co

ARROW SAFETY DEVICE CO

Auto Lamp Mfg Co

BERG MFG & SALES CO

BETTS MACHINE CO

Bolser Corp

ROBERT BOSCH CORP

Burgess Battery Co
Capson Mfg Co
Cole Automotive Products Co
Columbus Metal Products Co

DIETZ CO R E

Do-Ray Lamp Co
Electric Service Works Delta Star Electric Div
Electroline Mfg Co

GENERAL ELECTRIC CO MINIATURE LAMP DEPT

Griffin Lamp Co

GROTE MFG CO

GUIDE LAMP DIV

H & P Die & Stamping Co
Hall Lamp Co C M
Holan Corp
Hollywood Accessories Inc

K-D LAMP CO

KING BEE MFG CO

Loock & Co R J
McKee Glass Co Div
Miro-Flex Co
Norlipp Co
Peterson Mfg Co
Regal Motor Products Inc
Robbins Light Mfg Co
Rosen & Co A W
Rowe Industries
S & H Supply Co
S & M Lamp Co

SIGNAL-STAT CORP

Sparton Automotive Div
Speaker Corp J W
Speedometer Service Co
Trippe Mfg Co
U S Metal Products Co

UNION CARBIDE CONSUMER PRODUCTS CO DIV

UNITED MOTORS SERVICE

Unity Mfg Co
Warren Mfg Co

WESTINGHOUSE ELECTRIC CO LAMP DIV

YANKEE METAL PRODUCTS CORP

LAMPS, Drying, Baking & Heating

Binks Mfg Co
DeVilbiss Co
Dry Clime Lamp Corp
Fostoria Pressed Steel Corp

GENERAL ELECTRIC CO LAMP DIV

Master Mfg Co
North American Electric Lamp Co
Penetray Corp
Trippe Mfg Co

WESTINGHOUSE ELECTRIC CORP LAMP DIV

For addresses of manufacturers, see the new special section starting on **page 199**

LAMPS, Fog & Spot

American Automatic Devices Co
Arnolt Corp Automatic Div

ARROW SAFETY DEVICE CO

Auto Lamp Mfg Co

ROBERT BOSCH CORP

Cable Electric Products Inc
Carpenter Mfg Co
Casco Products Corp
Columbus Metal Products Inc

DIETZ CO R E

Do-Ray Lamp Co
Electric Service Mfg Co
General Electric Co Wiring Devices Dept
Great Lakes Tractor Co
Griffin Lamp Co

GROTE MFG CO

GUIDE LAMP DIV

Hall Lamp Co C M

K-D LAMP CO

King Bee Mfg Co
Lumidor Mfg Co
Matchless Electric Co
Peterson Mfg Co
Regal Motor Products Inc
S & M Lamp Co
Sparton Automotive Div

TUNG-SOL ELECTRIC INC

U S Metal Products Co

UNION CARBIDE CONSUMER PRODUCTS CO DIV

Unity Mfg Co

WESTINGHOUSE ELECTRIC CORP LAMP DIV

YANKEE METAL PRODUCTS CORP

LAMPS, Sealed Beam Units

Bolser Corp
Do-Ray Lamp Co Inc

GENERAL ELECTRIC CO LAMP DIV

GUIDE LAMP DIV

K-D LAMP CO

MOBIL OIL CO

NATIONAL CARBON CO

Trippe Mfg Co

TUNG-SOL ELECTRIC INC

UNION CARBIDE CONSUMER PRODUCTS CO DIV

UNITED MOTORS SERVICE

WESTINGHOUSE ELECTRIC CORP LAMP DIV

LAMPS, Tell-Tale

ARROW SAFETY DEVICE CO

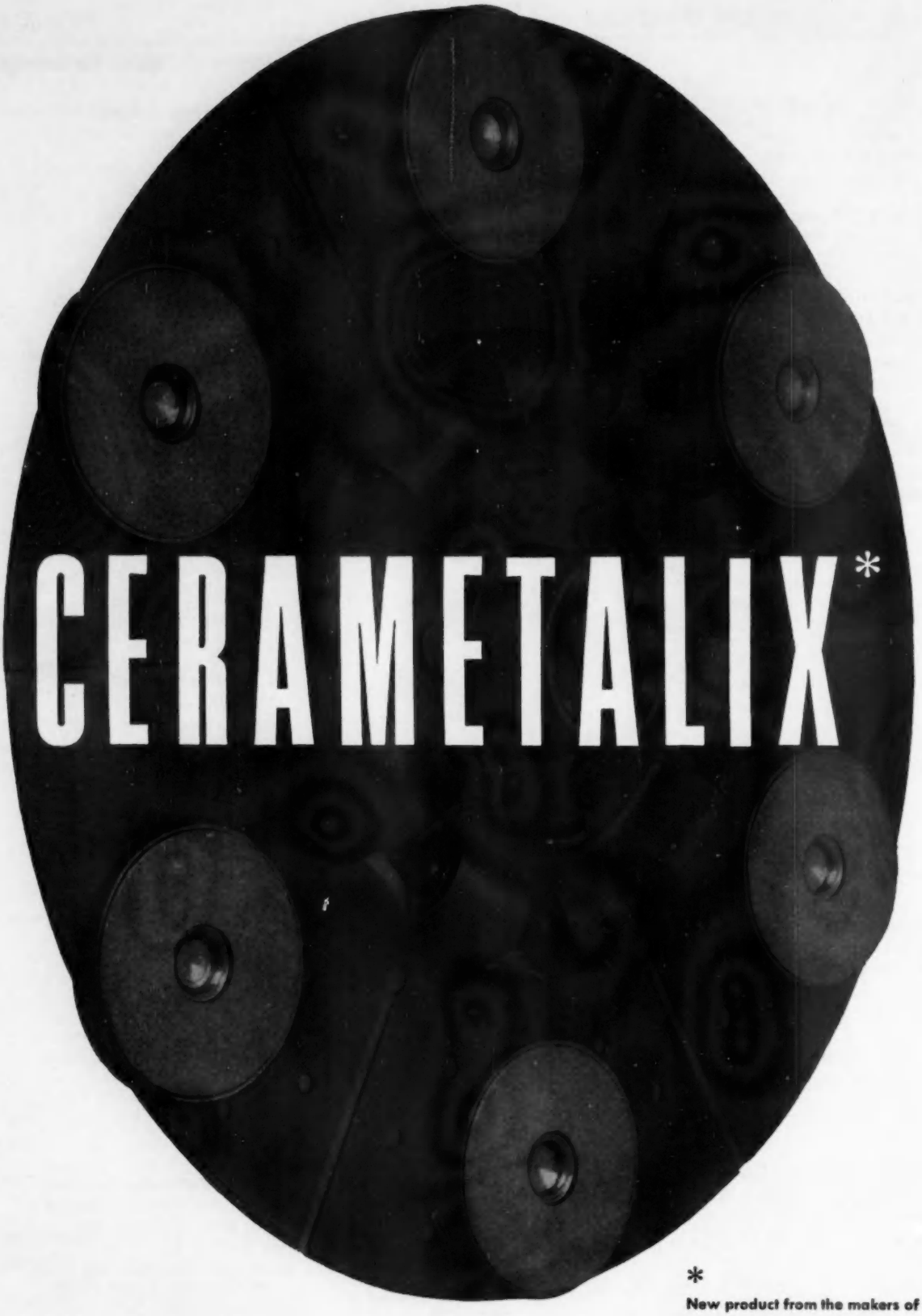
BERG MFG & SALES CO

DIETZ CO R E

GENERAL ELECTRIC CO MINIATURE LAMP DEPT

K-D LAMP CO

Rosen & Co A W



*

New product from the makers of famous Bendix Brake Linings.

NEW BENDIX FRICTION MATERIAL INCREASES CLUTCH LIFE 3 TO 4 TIMES

Cuts vehicle downtime

Prevents clutch burn-out, fading

Eliminates "grabbing", heat checking

Reduces frequency of adjustments

If you'd like to get up to three times as much service from your truck and bus clutches, then Cerametalix-lined clutch plates are for you! This new friction material, recently developed by Bendix automotive research, increases clutch life three to four times! It is a super-tough material that wears slowly and withstands high temperatures, yet has the same friction characteristics as conventional materials. The engaging action of Cerametalix-lined plates is smooth, yet positive. Even at extreme temperatures, they retain their strength and friction!

Surfaces opposing Cerametalix† receive a minimum of heat checking, thus need resurfacing less frequently. This means less vehicle downtime and lower labor costs, fewer clutch adjustments to compensate for wear.

If you're not satisfied with the service you're getting from your clutches, install Cerametalix-lined plates next time. They're completely interchangeable with conventional organic-lined plates. The coupon below will bring you more information and the name of a supplier of Cerametalix-lined clutch plates near you.

†REG. U.S. PAT. OFF.

FITS ALL TRUCKS, BUSES, TRACTORS, *and industrial equipment requiring clutch diameters of 11" and larger.*
PERFECTLY INTERCHANGEABLE *with conventional clutch plates. No special installation needed.*

IF YOUR SERVICE SUPPLIER DOESN'T HANDLE CERAMETALIX, MAIL COUPON

Bendix
AVIATION CORPORATION

Marshall-Eclipse Division
TROY, NEW YORK

Marshall-Eclipse Division, Bendix Aviation Corporation
Department B11, Troy, New York

Please send me more information about Cerametalix lining for clutch plates and the name of the supplier nearest me.

NAME _____ TITLE _____

FIRM NAME _____

ADDRESS _____

CITY _____ ZONE ____ STATE _____

Lamps to Lifts

LAMPS, Tell-Tale—*continued*

SIGNAL-STAT CORP

Speaker Corp J W
Unitron Corp

WESTINGHOUSE ELECTRIC CO LAMP DIV

LAMPS, Trouble (Battery)

Alden Products Co
Arsco Mfg & Sales Co
Auto Lamp Mfg Co
Busch & Co A G
Cable Electric Products Inc

DIETZ CO R E

Enco Mfg Co

GENERAL ELECTRIC CO MINIATURE LAMP DEPT

General Electric Co Wiring Device Dept
Hollywood Accessories Inc
Hopkins Mfg Co

KING BEE MFG CO

Nelmor Mfg Corp
Perfection Automotive Products Corp
Standard Portable Cord Co
Triple-A Specialty Co
U-C Lite Mfg Co
Unity Mfg Co
Walker Bros

WESTINGHOUSE ELECTRIC CORPORATION

Whitaker Cable Corp

LAMPS, Trouble (Shop)

Advanced Mfg Inc
Benjamin Reel Products Inc
Black Mfg Co M
Carpenter Mfg Co
Cordomatic Dept C
Crescent Co

DIETZ CO R E

Dole Refrigerating Co
Do-Ray Lamp Co Inc
Eagle Electric Mfg Co
Ferry Mfg Co

GENERAL ELECTRIC CO MINIATURE LAMP DEPT

General Electric Co Wiring Device Dept
Glade Mfg Co
Hopkins Mfg Co
Kliegl Bros Universal Electric Stage Lighting Co
Lufkin Rule Co
Magnetix Inc
McGill Mfg Co Electrical Div
Moffatt Products Inc
Pyle-National Co
Royal Electric Corp
Save Lamp Co
Standard Portable Cord Co
Triple-A Specialty Co
U-C Lite Mfg Co
Walker Bros

WESTINGHOUSE ELECTRIC CORPORATION

LAMPS, Warning (For Roof Mounting)

American Automatic Devices Co

ARROW SAFETY DEVICE CO

Buckeye Iron and Brass Works
Busch & Co A G
Carpenter Mfg Co
Columbus Metal Products Inc

DIETZ Co R E

Do-Ray Lamp Co
Federal Sign & Signal Corp

GENERAL ELECTRIC CO MINIATURE LAMP DEPT

Griffin Lamp Co

GROTE MFG CO

GUIDE LAMP DIV

K-D LAMP CO

KING BEE MFG CO

Pyle-National Co

SIGNAL-STAT CORP

Trippe Mfg Co
U-C Lite Mfg Co
Unity Mfg Co

WESTINGHOUSE ELECTRIC CORPORATION

YANKEE METAL PRODUCTS CORP

LANDING GEARS (Trailer)

Austin Trailer Equipment Co

BINKLEY MFG CO

BOYERTOWN AUTO BODY WORKS

DAYTON STEEL FOUNDRY

FRUEHAUF TRAILER CO

HIGHWAY TRAILER CO

HOLLAND HITCH CO

Homan & Co Inc

LATHES, Bench

Atlas Press Co
Elgin Tool Works
Hardinge Bros Inc
Hjorth Lathe & Tool Co
LeBlond Machine Tool Co R K
Rivett Lathe & Grinder Inc
Sheldon Machine Co
South Bend Lathe Works

LATHES, BRAKE DRUM *See Brake Drum Lathes*

LEAF SPRINGS *See Springs, Leaf*

LEASING COMPANIES (Nationwide)

Berman Service Inc

HERTZ RENTAL SYSTEM

Ryder Truck Rental Div

LETTERING MASKS *See Stencils*

LEVERS, PARKING BRAKE *See Brake Levers, Parking*

LIFT TRUCKS, Gasoline

Allis-Chalmers Mfg Co Engine Material Handling Div
American Pulley Co
Automatic Transportation Co Div
Baker Industrial Truck Div
Clark Equipment Co Industrial Truck Div
Cushman Motor Works Inc
Elwell-Parker Electric Co The
Erickson Power Lift Trucks Inc
Gerlinger Carrier Co
"H H" Mfrs
Howell Industrial Truck Co
Hyster Co
Kwik-Mix Co
Lamson Mobilift Corp
Lewis-Shepard Products Inc
Oliver Corp A B Farquhar Div
Ottawa Steel Div
Peterbilt Motors Inc
Silent Hoist & Crane Co
Towmotor Corp
Transitier Truck Co
Yale Materials Handling Div

LIFT TRUCKS, Diesel

Allis-Chalmers Mfg Co Engine Material Handling Div
Caterpillar Tractor Co
Clark Equipment Co Industrial Truck Div
Hyster Co
Lewis-Shepard Products Inc
Oliver Corp A B Farquhar Div
Towmotor Corp
Transitier Truck Co
Yale Materials Handling Div

LIFT TRUCKS, Electric

Barrett-Cravens Co
Big Joe Mfg Co
Clark Equipment Co Industrial Truck Div
Economy Engrg Co
Elwell-Parker Electric Co
The Heifred Corp
Howell Industrial Truck Co
Lewis-Shepard Products Inc
Lift Trucks Inc
Mercury Mfg Co
Moto-Truc Co
Portable Lift Trucks Inc
Raymond Corp
Revolvator Co
Yale Materials Handling Div

LIFT TRUCKS, LP Gas

Bay Mfg Div
Elwell-Parker Electric Co
Lewis-Shepard Products Inc

LIFTS, PORTABLE ONE END *See Jacks, Portable Air*

LIFTS, PORTABLE *See Jacks, Portable Air*

LIFTS, TRANSMISSON *See Jacks, Transmission*

LIFTS, Vehicle Electric

BLACKHAWK MFG CO AUTOMOTIVE DIV

COLLINS & ASSOCIATES INC

GLOBE HOIST CO

Joyce-Cridland Co
Lewis-Shepard Products Inc
Rotary Lift Co
United States Air Compressor Co

NEED AN EXTRA TRUCK ?

RENT IT FROM HERTZ

Overloading trucks never pays. Neither does tying up capital in owned trucks that may sit idle, waiting for peak delivery periods.

Renting Hertz trucks solves both problems. You get the added capacity you need for extra jobs, without investing a dime of capital.

Hertz is America's largest and most experienced truck rental company. We offer a greater variety of Chevrolet, GMC and other modern trucks in more locations, available on short notice, than any other company. Call your local Hertz office whenever you need added truck capacity in its most economical form.

HERTZ
TRUCK RENTAL®

You can also lease Hertz trucks for economical year-round operation

Lifts to Lubricators

LIFTS, Vehicle, Hydraulic

Autoquip Corp
AUTO SPECIALTIES MFG CO
BLACKHAWK MFG CO
Cochin Mfg Co J D
COLLINS & ASSOCIATES INC
Gilbert & Barker Mfg Co
GLOBE HOIST CO
Highland Machine Co
Homestead Valve Mfg Co
Joyce-Cridland Co
Lewis-Shepard Products Inc
Rotary Lift Co
WATERVLIET TOOL CO
WEAVER MFG CO
Wilson Inc K R

LIGHT SWITCHES *See Switches*
LIGHTS, TIMING *See Timing Lights*
LINERS, CYLINDER *See Cylinder Liners*
LININGS, BRAKE *See Brake Linings*
LINKS, SHOCK ABSORBER *See Shock Absorber Links*
LINKS, TIRE CHAIN REPAIR *See Tire Chain Repair Links*
LIQUID LEVEL GAGES, STORAGE TANK *See Tank Gages*
LOAD BINDERS *See Tie-Downs, Cargo*
LOADERS, FRONT END (CONSTRUCTION & OFF-HIGHWAY) *See Front End Loaders*
LOADERS, TAILGATE *See Tailgates, Elevating*
LOCKERS *See Cabinets*
LOCK NUTS *See Nuts, Self-Locking*
LOCKS, BRAKE (HILL HOLDING) *See Brake Locks*
LOCKS, IGNITION *See Switches, Ignition*
LOCKS, TRAILER *See Trailer Locks*
LOOM, TUBING *See Tubing Loom*
LP GAS *See Fuels*
LP GAS FILTERS *See Fuel Filters*
LUBRICANTS, *See Oils & Lubricants*
LUBRICANTS, TIRE *See Tire Lubricants*
LUBRICATING GRAPHITE *See Graphite Lubricant*

LUBRICATORS, Automatic (Vehicle Mounted)

Automotive & Marine Products Corp
LINCOLN ENGINEERING CO

LUBRICATORS, Pressure Type

ALEMITE DIV
ARO EQUIPMENT CORP
Balcrank Inc

SEIB

SEIBERLING COMMUTER TIRES GUARANTEE CASH SAVINGS

The Commuter T&B gives you the perfect combination of tire features you need for winter safety and "on the go" savings . . . and Seiberling will "go the extra mile" to prove it. Our exclusive "two and two" program gives you proof of Commuter performance . . . *guarantees cash savings to you!* Here's how . . .

Let us equip your buses or trucks with two Seiberling Commuter Tires on one side, two snow tires of the brand you are presently using on the other side. We'll make periodic inspections and compare the costs per thousand miles of operation. *We'll prove you save with Seiberling or you will receive a cash refund on the basis of the percentage cost per thousand difference between your present tires and Seiberling Commuters. You can't lose!*

Seiberling Commuters are available in a complete range of sizes, including tubeless delivery truck sizes.

Get the "two and two" proof on Commuters from your Seiberling dealer or contact Truck Tire Department, Seiberling Rubber Company, Akron 9, Ohio.

We don't just say it – we sign it!

Shown above is the "two and two" program form. The agreement is in writing, signed by your Seiberling distributor. No oral promises . . . it's proof or pay!

Makers of America's Finest Tires

ERLING

Lubricators to Mirrors

LUBRICATORS—*continued*

Bud-Air Co
Gray Co
Grover Mfg Corp
Jiffy Lubricator Co
LINCOLN ENGINEERING CO
Manzel Unit
Paasche Airbrush Co
United States Air Compressor Co
Universal Lubricating Systems Inc
Wilson Inc K R
Wilsons Sons Inc Wm M

LUBRICATORS, Manual

ALEMITE DIV
ARO EQUIPMENT CORP
Balcrank Inc
BENNETT PUMP DIV
Bowen Products Corp
Coil Mfg Co
Dixon Crucible Co Joseph
Gilbert & Barker Mfg Co
Gray Co
Grayson Tool Co
Grover Mfg Corp
LINCOLN ENGINEERING CO
Noera Mfg Co Div
Superior Mfg Co
Templeton Co The
Universal Lubricating Systems Inc

LUBRICATORS, Upper Cylinder

Automotive & Marine Products Corp
Emerol Mfg Co
Pyroil Co
So-Lo Jack Co
Universal Lubricating Systems Inc
United States Aviex Corp
White Automotive Products Inc

MACHINES, ACCOUNTING *See Accounting Machines*

MACHINES, BABBITTING *See Babbitting Machines*

MACHINES BEARING ALIGN BORERS *See Bearing Align Borers*

MACHINES, BORING, PISTON PIN BUSHING *See Piston Pin Bushing Boring Machines*

MACHINES, BRAKE RELINING *See Brake Riveting Machines*

MACHINES, BRAKE TESTING *See Brake Testing Machines*

MACHINES, CLUTCH REBUILDING *See Clutch Rebuilding Machines*

MACHINES, CYLINDER BONDING *See Cylinder Bonding Machine*

MACHINES, FRONT END & AXLE ALIGNING *See Aligning Equipment (Front End)*

MACHINES, PISTON TURNING & GRINDING *See Piston Turning & Grinding Machine*

MAGNESIUM ALLOYS

Belmont Smelting & Refining Works
Dow Chemical Co
Federated Metals Div
Niagara Falls Smelting & Refining Div
Vanadium Corp of America

MAGNETOS

American Bosch Div
Fairbanks Morse & Co Magneto Div
Scintilla Magneto Div
Wico Electric Co

MANIFOLD, Intake & Exhaust

Almquist Engrg Co
CONTINENTAL MOTORS CORP
Detroit Gasket & Mfg Co
Edelbrock Equipment & Co
International Parts Corp
Weiand Power & Racing Equip

MASKING LIQUID

Acme Quality Paints Inc
Adhere Inc
Briggs Mfg Co
Dennis Chemical Co
Detrex Chemical Industries Inc
Park Chemical Co
Permo Products Co
Servwell Products Co
Steelcote Mfg Co
Swavely Chemical & Varnish Works

MASKING TAPE

American Tape Co
Behr-Manning Corp
Carborundum Co
Continental Tapes
Dutch Brand Div
Eastman Kodak Co
Hampton Mfg Co Industrial Tape Div
MINNESOTA MINING & MFG CO
Mystik Adhesive Products Inc
Permacel Tape Corp
Polyken Sales Div
Seamless Rubber Co Industrial Tape Div
Servwell Products Co
Shuford Mills Inc

MASKS, LETTERING *See Stencils*

MASTER CYLINDERS *See Brake Hydraulic Systems & Parts*

METALIZING EQUIPMENT

Colmonoy Div
Metallizing Engineering Co

METERS, AIR TOWER, AUTOMATIC *See Tire Inflator*

METERS, BRAKE TESTING *See Brake Testing Machines*

METERS, EXHAUST SMOKE *See Exhaust Smoke Meters*

For addresses of manufacturers, see the new special section starting on **page 199**

METERS, Engine Hour

ENGLER INSTRUMENT CO
Hobbs Corp John W

MICA UNDERCUTTERS *See Undercutters, Mica*

MICROMETERS

Acme Industrial Co
Ames Co B C
Ammco Tools Inc
BARRETT EQUIPMENT CO
Bath & Co John
Brown & Sharpe Mfg Co
Central Tool Co
Chicago Dial Indicator Co
Do All
Federal Products Corp
Keystone Reamer & Tool Co
Lufkin Rule Co
Millers Falls Co
National Acme Co
Pratt & Whitney
Rimat Gage Co
Rottler Boring Bar Co
Scherr Co George
Sheffield Corp
Standard Gage Co
Starrett Co L S
Swedish Gage Co of America
Tubular Micrometer Co
Van Keuren Co

MICROWAVE RADIO *See Radios, Two-Way*

MILEAGE TESTERS *See Testers Fuel Mileage*

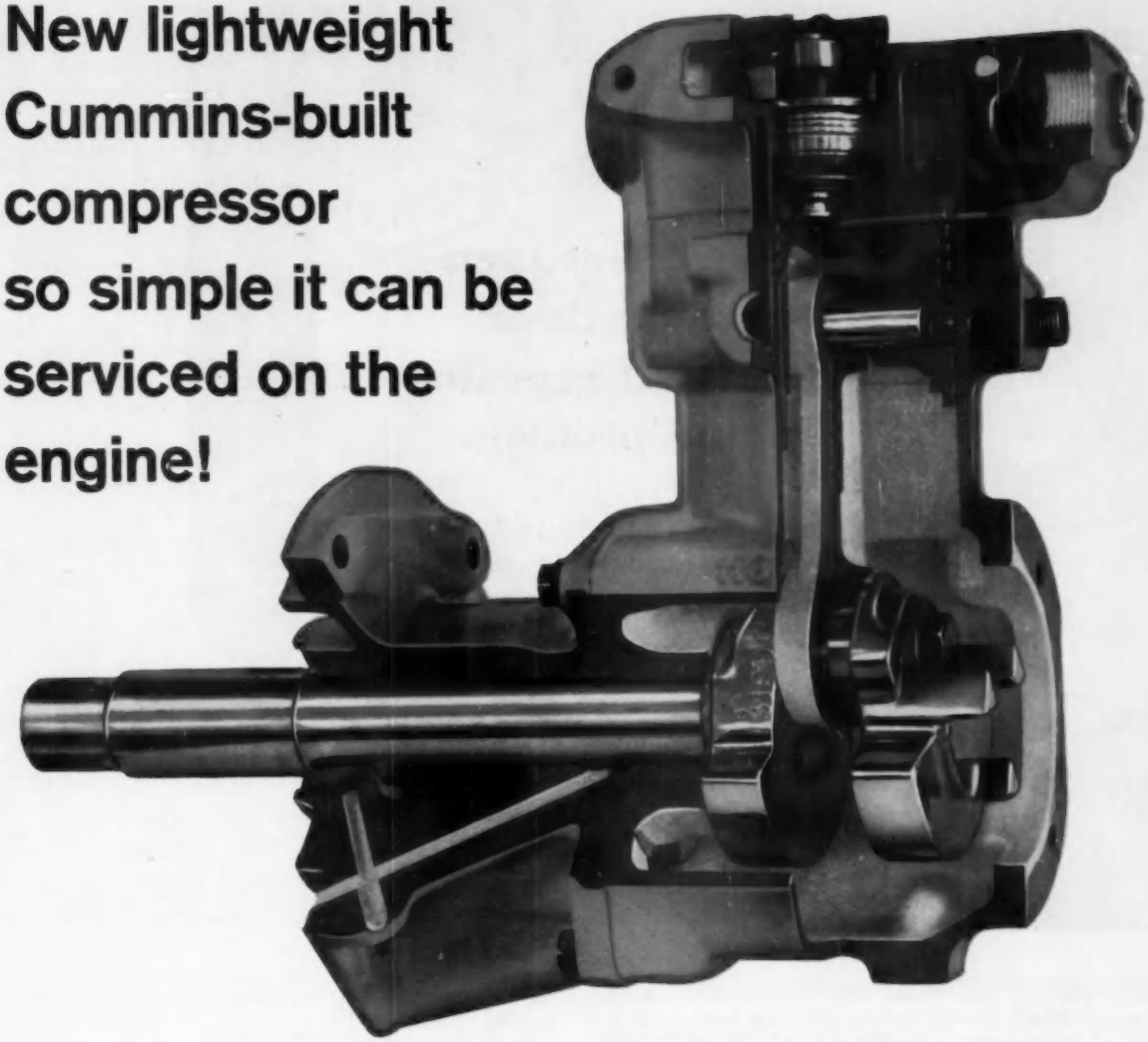
MIRRORS, Bus Panel

ACME SPECIALTY MFG CO
ANTHES FORCE OILER CO
ARROW SAFETY DEVICE CO
Auto Lamp Mfg Co
DIETZ CO R E
Do-Ray Lamp Co Inc
King Bee Manufacturing Co
Standard Mirror Co
YANKEE METAL PRODUCTS CORP

MIRRORS, Rear View

American Automatic Devices Co
Anderson Co
ANTHES FORCE OILER CO
Appleton Electric Co
ARROW SAFETY DEVICES CO
Auto Lamp Mfg Co
Bolser Corp
Casco Products Corp
Cole Automotive Products Co
Columbus Metal Products Inc
Corning Glass Works
"Defrosto" Mirrors Inc
DIETZ CO R E
Do-Ray Lamp Co
Electric Service Mfg Co
GROTE MFG CO
GUIDE LAMP DIV
KING BEE MFG CO

New lightweight Cummins-built compressor so simple it can be serviced on the engine!



Single cylinder design reduces total parts by 50%
—moving parts by 30% over conventional 12 cfm compressors!

- *Greater dependability* Simplified, one piece air intake and outlet assembly, integral crankshaft and accessory drive increases operating life and efficiency.
- *More compact* Unit is 5 inches shorter and up to 20 lbs. lighter than conventional air compressors.
- *Fully tested* in automotive and industrial applications. New compressor has been proved with more than 3 million truck fleet miles and over 20 thousand off-highway hours.
- *Reduced maintenance* New Cummins Compressor can be serviced on the engine—by your mechanics if you desire—in only 20 minutes! Parts are available at all Cummins Distributor locations.
- *Standard on Cummins Diesels* All Cummins Diesels made after November 1, 1959, will carry the new compressor as standard equipment. However, your Cummins Distributor can install the new compressor on your present engine.

Cummins Air Compressor specifications:
Single cylinder. Air delivery—12 cfm. Bore and Stroke—3⅞ x 1.9 Weight—47-50 lbs.
Dimensions: Length—9-9¾". Height—12⅝". Width—7½".
Cooling—Water from engine!

CUMMINS

Cummins Engine Company, Inc., Columbus, Indiana

These are tarry deposits removed from crankcase into which permanent-type anti-freeze had leaked.

What some fleet men say is their most serious and repeated engine problem

Permanent-type anti-freeze leakage into crankcase a cause of major maintenance headaches

By A. C. Davis and J. M. Miller, Sales Technical Service Department Standard Oil Company

Both gasoline and diesel engines frequently suffer leakage which permits permanent-type anti-freeze to seep into the crankcase. When this happens, deposits form. Deposits vary from light, varnish-like films to heavy, black, rubber-like tar. The harmful effects of light varnish deposits can range from nil to plugging of rings, sticking of hydraulic lifters and valves and, possibly, sticking of pistons. In severe cases, heavy, black, rubber-like deposits tend to accumulate in the crankcase. Equally serious is the fact that the anti-freeze may remove the additives from the motor oil, causing them to settle out. Deposits resulting from permanent-type anti-freeze leakage are unwanted, and additive removal robs the engine of the full protective qualities of the motor oil and additives.

Identifying problem is difficult

One reason for the seriousness of the leakage problem is that it can go unrecognized until too late. The varnish-like deposits are similar in appearance to those due to lack of motor oil quality or to lack of additive in the motor oil. This is the type most frequently encountered. The deposits, due to heat and chemical action, bear no resemblance to the original anti-freeze and are difficult to analyze.

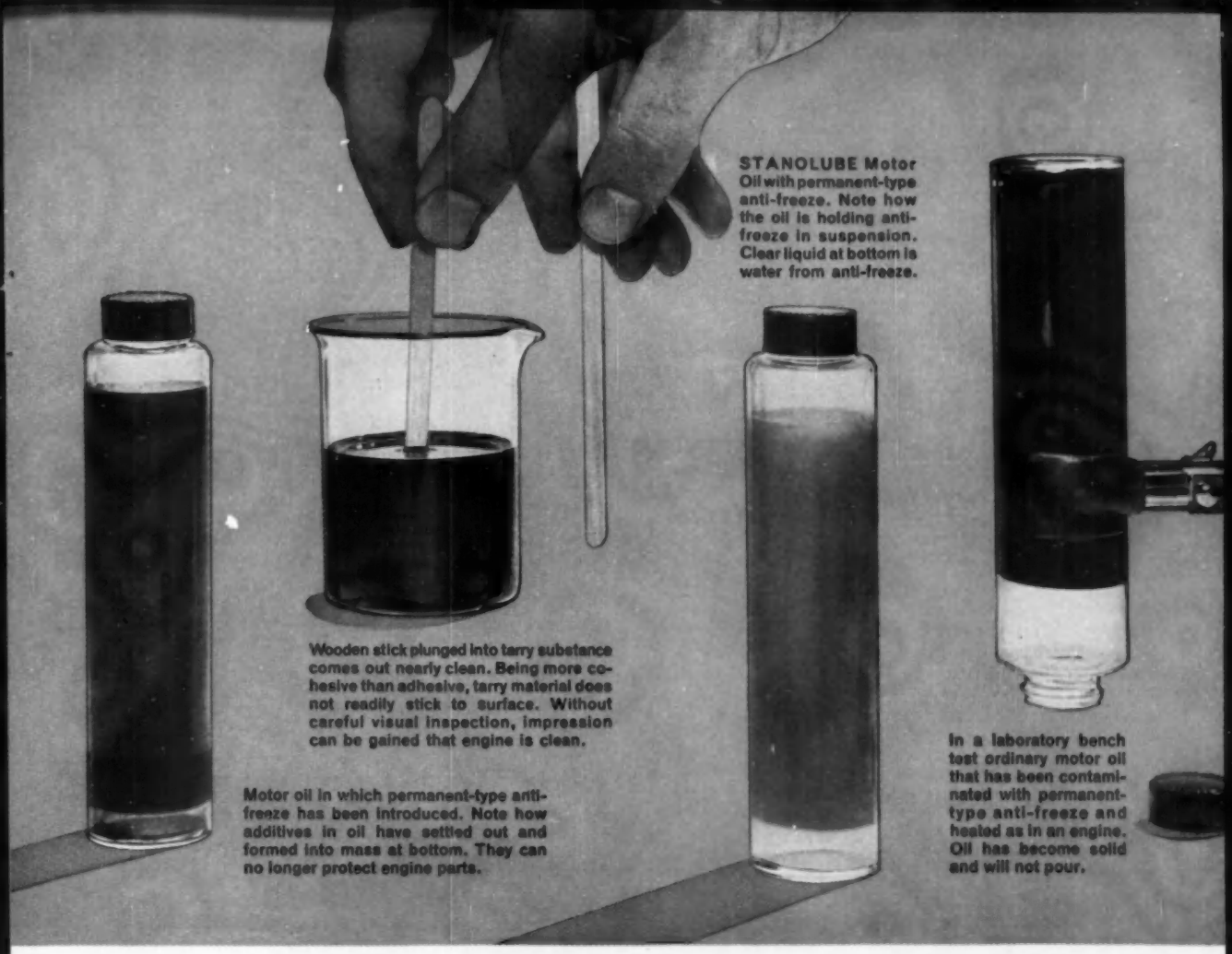
In general, anti-freeze contamination of motor oil goes unrecognized because permanent anti-freeze solutions are insoluble in oil. They settle to the bottom of the crankcase and usually are not included in a used oil sample. Extreme care in sampling is necessary to detect this contamination.

When heavy, tarry deposits occur and motor oil additives are mixed with the deposits, the deposits tend to stay in the crankcase. Frequently, on draining, the oil appears relatively clean—that is, it is less contaminated with carbon, soot and other oil-coloring materials. If such deposits are suspected, they may still be missed by probing because they do not readily adhere to the probe.

These factors can lead a skilled and competent maintenance crew, and an equally capable laboratory analyst, into believing there is no sludge in the crankcase or that there is no oil varnish due to contamination. If the crankcase is removed, however, the damage-causing, tarry-like deposits will be found.

Stop anti-freeze leakage to prevent deposits from occurring

Check head gasket for possible leakage. If leakage is occurring there, gasket should be replaced. In engines using "wet sleeve" type cylinder liners, the sealing rings and lands should be inspected for leakage. Where a synthetic rubber-based sealing compound is used over the sealing rings and lands, replace this coating whenever engine is disassembled.



Anti-freeze affects different motor oils in various ways

The amount and nature of deposits is affected by the amount of anti-freeze leakage and the composition of the motor oil. Severity of operation is also a factor in the amount of deposits formed.

STANOLUBE HD-M and S-1 Motor Oils have demonstrated a unique ability to hold anti-freeze in suspension, minimizing deposits. Most important, the additives in STANOLUBE HD-M and S-1 are not readily removed by the anti-freeze.

Service suggestions

If used oil at drain time appears cleaner than expected, it should make one suspicious of the loss of additive. A mildly opaque oil often signals that water is present, but that additives remain in the oil. We know of no better method of protecting engines in winter than by the use of permanent-type anti-freeze. However, the possibility of leakage and the resulting damage to engine and oil that may occur, are good reasons for removing anti-freeze during warm weather.

More facts

Get more facts about permanent-type anti-freeze contamination and about how STANOLUBE Motor Oils can help solve this problem. Inquire of your Standard Oil automotive lubrication specialist at any of the 48 district offices in the 15 Midwest and Rocky Mountain states. Or write **Standard Oil Company (Indiana), 910 South Michigan Avenue, Chicago 80, Illinois.**

How to clean an engine contaminated by tarry deposits resulting from permanent-type anti-freeze leakage

1. Drain out all oil and remove oil filter; fill the crankcase with a mixture of about 3 qts. of SAE 10/W and 2 qts. of Butyl Cellosolve (obtainable from chemical suppliers); idle the engine for 30 minutes, noting the oil pressure; immediately drain the solution from the crankcase.
2. Add a flushing solution of about 3 qts. of SAE 10/W and 2 qts. of Kerosene; circulate the mixture at idling speed for 5 minutes; completely drain the system.
3. Install a new oil filter element and add fresh oil of the grade and classification required.

You expect more from **STANDARD** *and get it!*

Mountings to Oil & Lubricants

MIRRORS—continued

Power Brake Parts Mfg Co
Prutsman Ted
Sparton Automotive Div
Speaker Corp J W

YANKEE METAL PRODUCTS CORP

MOLDS, TIRE RECAPPING & RETREADING *See Tire Recapping Equipment*

MONORAIL CRANES *See Cranes, Monorail*

MOUNTINGS, Insulated Rubber

Anchor Rubber Products Div
Atlantic India Rubber Works Inc
Bushings Inc
Champ-Items Inc
Doan Mfg Div
Ertel Products Co Repl Div

FIRESTONE TIRE & RUBBER CO

GENERAL TIRE & RUBBER CO INDUSTRIAL PRODUCTS DIV

Globe Rubber Products Corp
Goshen Rubber Co
Inland Mfg Div
Looch & Co R J
Lord Mfg Co
M B Mfg Co
Ohio Rubber Co
Parts Mfg Co
Perfect Parts Inc
Preferred Electric and Wire Co
Raybestos-Manhattan Inc Equip Sales Div
Roberts Toledo Rubber Co
Rodic Chemical & Rubber Corp
Standard Products Co
Stillman Rubber Co
Transit Parts Co

UNITED STATES RUBBER CO

Wheel Parts & Mfg Co

WOHLERT CORP

MUD FLAPS *See Splash Guards*

MUFFLERS, Exhaust

AP Parts Corp

ALEXANDER-TAGG INDUSTRIES INC

Almquist Engrg Co
Arvin Industries Inc
Buffalo Pressed Steel Co
Coachcraft Ltd
Compo Corp
De Koven Mfg Co
Donaldson Co Inc
Douglas Muffler Mfg Corp
Ero Mfg Co
Fifty Plus Five Corp
Goerlich's
Grand Automotive Prods
Haviland Co
Hayes Industries Inc
International Parts Corp
Lindy's Inc
Lion Auto Parts & Mfg Co
McCord Corp
MacKenzie Muffler Co
Maremont Muffler Div

MOPAR DIV

Nelson Muffler Corp
Northern Tube Co
Ohio Parts Inc
Oldberg Mfg Co
Oxy-Catalist Inc
Porter Muffler Mfg Co
Powell Muffler Co
Pratt Muffler Div
Riker Mfg Inc
Smithy's Muffler Co

TECH INDUSTRIES

Walker Mfg Co of Wis

MUFFLER GUARDS

Jenson and Mitchell Inc

NOZZLES, Air

Acme Air Appliances Co
Aero-Motive Mfg Co
Amseco Inc
Barmotive Products Inc
Bridgeport Brass Co
Champion Pneumatic Machinery Co
Clements Mfg Co
Decora Mfg Co
Diamond-U Products
Druge Bros Mfg Co
Dutton Lainson Co Mfg Div
Electric Sprayit Div
Gilmour Mfg Co
Grayson Tool Co

HANSEN MFG CO

IMPERIAL BRASS MFG CO

Lonn Mfg Co
National Machine & Tool Co
Norgren Co C A
Paasche Airbrush Co
Planet Metal Products Corp
Romort Mfg Co
Sharpe Mfg Co
Sherman Mfg Co H B
Superior Pneumatic & Mfg Inc
Thor Power Tool Co
Universal Lubricating Systems Inc

WEATHERHEAD CO FORT WAYNE DIV

NUTS, Self-Locking

Allen Mfg Co
American Sealants Co (chemical sealer)
Automatic Nut Corp
Boots Aircraft Nut Corp
Boss Bolt & Nut Co
Car Fastner Corp
Champ-Items Inc
Cleveland Cap Screw Co
Continental Screw Co
Delron Co

DORMAN PRODUCTS INC

Elastic Stop Nut Corp of America
General Pressed Metal Corp
Greer Stop Nut Co
Gries Reproducer Corp
Grip Nut Co
Hill Nut Co

LAMSON & SESSIONS CO

MacLean-Fogg Lock Nut Co

For addresses of manufacturers, see the new special section starting on **page 199**

National Machine Products Co
National Screw & Mfg Co
Nylok Corp
Palmut Co
Prestole Corp
Reliance Spring Washer Div
Republic Steel Corp
Russell Burdsall & Ward Bolt & Nut Co
SKF Industries Inc
Security Locknut Corp
Shakeproof Div

SOUTHCO DIV

Standard Locknut & Lockwasher Co
Standard Pressed Steel Co
Thompson-Bremer & Co
Tinnerman Products Inc
Townsend Co Engineered Fasteners Div

TRANSIT PARTS CO

United-Carr Fastener Corp
United Screw & Bolt Corp
Waldes-Kohinoor Inc
Waterbury Pressed Metal Co
Whittet-Higgins Co

ODOMETERS *See Speedometers & Hubodometers*

OIL & LUBRICANTS, Engine & Chassis

Alpha-Molykote Corp
Ashland Oil Refining Co
Atlantic Refining Co
California Oil Co
Cities Service Oil Co

CLIMAX MOLYBDENUM CO

Continental Oil Co
Daubert Chemical Co
D-X Sunray Oil Co
Elco Lubricant Corp
Emerol Mfg Co

ESSO STANDARD OIL CO

Freedom-Volvoline Oil Co

GULF OIL CORP

Imperial Oil & Grease Co

KENDALL REFINING CO

LEHIGH CHEMICAL CO

Lion Oil Co
Lubrication Engineers Inc

LUBRIPLATE DIV

MacMillan Petroleum Corp
Mid-Continent Petroleum Corp

MOBIL OIL CO

Moly Motor Products Corp
Ohio Oil Co
Pennsylvania Refining Co
Pennzoil Co

PERMATEX COMPANY INC

PHILLIPS PETROLEUM CO

Pure Oil Co
Quaker State Oil Refining Co
Reardon Products

SHELL OIL CO

SINCLAIR REFINING CO

SOCONY-MOBIL OIL CO INC

SONNEBORN SONS L

REO

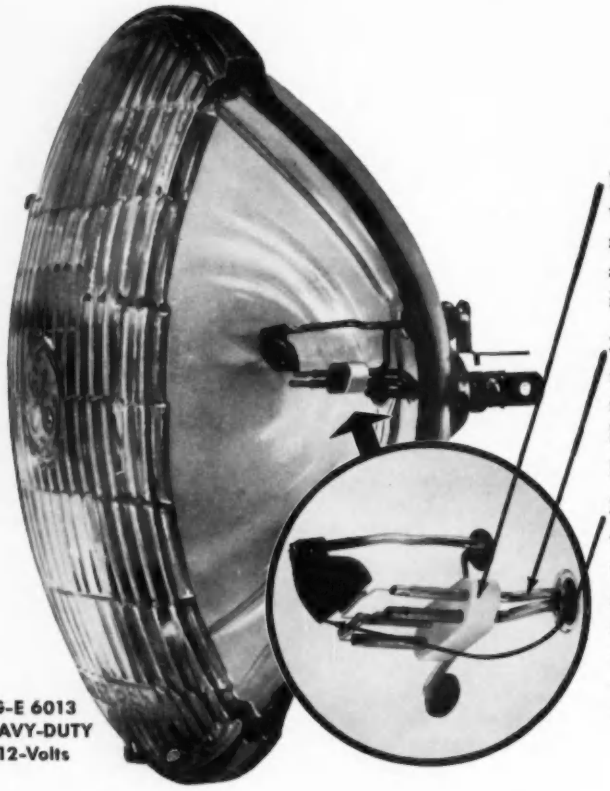
Higher payloads within legal limits—that's what's designed into the Reo AC 63″ COE for operators of high-cube trailers. Even with a sleeper cab, the Reo AC 63″ Tractor couples to 40′ van within 50′ over-all. Visibility and roomy design of cab gives driver relaxed control under all conditions. Short wheelbase and wide track front axles provide exceptional maneuverability and stability. Reo AC COE's are powered with eager Gold Comet 6s or V-8s—145 to 235 hp, gas or LP-Gas—for sustained, high-speed express schedules without strain. Reo AC COE's are amply proven too, with over three years of varied job applications behind them—hauling general freight, sand, gravel, petroleum, steel, concrete block. Custom engineered, of course. See your Reo distributor or write

REO DIVISION, The White Motor Company, Lansing, Michigan. *Gold Standard of Values*

NOW... for rough service 12-volt trucks with 2 headlamps

G-E SUBURBAN Headlamps help drivers see better in spite of oncoming cars' lights

Increased nighttime traffic now necessitates the use of the low beam about 75 per cent of the time. Therefore, the new G-E SUBURBAN Headlamps have their low beam filaments on focus to put the light where it is needed most—down the right side of the road so drivers can see better in spite of oncoming cars' lights when they are 75-200 feet away. Only General Electric SUBURBAN Headlamps have this feature for 12-volt trucks with two headlamps.



G-E 6013
HEAVY-DUTY
12-Volts

HERE'S HOW THE G-E 6013 SUBURBAN HEADLAMP WITHSTANDS ROUGH SERVICE

1. The ceramic shock absorber keeps lead-in wires separated and in exact position to subdue most road shock and vibration. Lead-in wires and shock absorber move together rather than independently—thus filaments can't be distorted.

2. Lead-in wires are preformed to overcome the natural spring action of bent wire. Ends of the lead-in wires are held in exact position and brazed in place. This locates the filaments more precisely for the best lighting results.

3. Filaments operate at a lower temperature than regular G-E SUBURBAN Headlamps to provide even greater mechanical strength. The shield over the low beam filament is locked to a separate rod not touching the lead-in wires—its vibration is not transmitted to the filaments. General Electric Co., Miniature Lamp Dept. M-904, Nela Park, Cleveland 12, Ohio.

For 2-Headlamp Trucks... For 4-Headlamp Trucks... For 6-Volt Systems... For 12-Volt Systems

	2-HEADLAMP		4-HEADLAMP
	6-Volt Systems	12-Volt Systems	12-Volt Systems
Regular G-E SUBURBAN Headlamps	6006	6012	4001 (upper beam centered) 4002 (low beam centered plus fill-in light)
Rough Service G-E SUBURBAN Headlamps	—	6013	4001 (upper beam centered) 4005 (low beam centered)

Progress Is Our Most Important Product

GENERAL ELECTRIC

OIL & LUBRICANTS—*continued*

STANDARD OIL CO OF CALIFORNIA

STANDARD OIL CO OF IND

STANDARD OIL CO OF TEXAS

Sun Oil Co

TEXACO INC

Tide Water Associated Oil Co

UNION OIL CO OF CALIF

Valvoline Oil Co
Warren Refining & Chemical Co
Waverly Petroleum Products Co
Wolf's Head Oil Refining Co

OIL ADDITIVES *See Additives, Fuel & Oil*

OIL ANALYSIS KITS

Gerin Corp

MOBIL OIL CO

SHELL OIL CO

WIX ACCESSORIES CORP

OIL COOLERS

G & O Mfg Co
Kewanee-Ross Corp
Yates-American Machine Co
Young Radiator Co

OIL DRAINERS

Berg-Gibson Mfg Co

CHOLDUN MFG CORP

Lostro Inc
Quick Charge Inc
Smith Mfg Corp
Supreme Equipment Corp
Wherry Engrg Co

OIL FILLER CAPS

Badger Mfg Corp
Berkson Products Inc

DORMAN PRODUCTS

Eaton Mfg Co Stamping Div

STANT MFG CO

Technical Development Co
Wayne Metalcraft Div

OIL FILTERS

AC SPARK PLUG ELECTRONICS DIV

Air-Maze Corp
Baldwin Mfg Co JA
Bendix-Skinner Div
Canadian and General Development Corp
Champion Laboratories Inc
Commercial Filters Corp
Continental Mfg Corp
Cuno Engrg Corp
Danielson Mfg Co
De Luxe Products Corp
Engine Accessories Mfg Co

FRAM CORP

HASTINGS MFG CO

Hilliard Corp
Hutchens Industries Inc
Indiana Commercial Filters Corp
International Refinol Co
A M Lavin Machine & Mfg Works
Lee Filtor Corp

LUBER-FINER INC

MOBIL OIL CO

Nugent & Co Wm W
Oilpure Refiner Sales Co
Permanent Filter Corp

PUROLATOR PRODUCTS INC

Schroeder Brothers Corp
Truck Accessories Co
W G B Oil Clarifier Inc
Walker Mfg Co of Wis
Winslow Engrg & Mfg Co

WIX CORP

OIL FILTER CARTRIDGES

AC SPARK PLUG ELECTRONICS DIV

Bowes "Seal Fast" Corp
Buffalo Pressed Steel Co
Campbell Filter & Mfg Co
Champion Laboratories Inc
Cyclone Filter Corp
DeLuxe Products Corp
Filters Inc

FRAM CORP

HASTINGS MFG CO

Hutchens Industries Inc

LUBER-FINER INC

MacKenzie Muffler Co

MOBIL OIL CO

Pick Mfg Co

PUROLATOR PRODUCTS INC

Refill Filter Co
W B G Oil Clarifier Co
Walker Mfg Co of Wis
Winslow Engineering Co

WIX CORP

OIL FILTERS, Transmission

Air-Maze Corp

FRAM CORP

FULLER MFG CO TRANSMISSION DIV

OIL LEVEL GAGES

Bristol Co
Boston Auto Gages Co
Gits Bros Mfg Co
Rochester Mfg Co

STEWART-WARNER CORP INSTRUMENT DIV

Trico Fuse Mfg Co

OIL LINES, FLEXIBLE *See Fuel Lines, Flexible*

OIL PRESSURE GAGES

AC SPARK PLUG ELECTRONICS DIV

Bristol Co

DORMAN PRODUCTS INC

Dunn Mfg Co

ELECTRIC AUTOLITE CO

FRAM CORP

Kent-Moore Organization Inc

KING-SEELEY CORP

Murphy Mfr Inc
Rochester Mfg Co
Schwarze Electric Co

SNAP-ON TOOLS CORP

STEWART-WARNER CORP INSTRUMENT DIV

Sun Electric Corp
United States Gauge Div

WEATHERHEAD CO FORT WAYNE DIV

OIL PUMPS

(Advertiser Only)

WOHLERT CORP

OIL RECLAIMERS

Burt Mfg Co
Hilliard Corp

OIL SEALS

Acadia Div
Alloy Mfg Co
Andrews Parts Mfg Co
Atlas Asbestos Co
Booth Felt Co
Brummer Seal Co
Burgess Leather Co A E
Cartriseal Corp

CHICAGO RAWHIDE MFG CO

Copeland-Gibson Products Corp
Crane Packing Co
Fastex Div of Illinois Tool Works

FEDERAL-MOGUL SERVICE DIV

Felt Products Mfg Co

FITZGERALD MFG CO

Garlock Packing Co
Gits Bros Mfg Co
Graphite Metallizing Corp
Graton & Knight Co
International Packing Corp

JOHNS-MANVILLE

Kickhoefer Mfg Co
Krug Co
Lenz Co
Lothrop Co Frank B
McCord Corp

MECHANEX CORP

Michigan Leather Products Co
Muskegon Piston Ring Co

NATIONAL SEAL DIV

Ohio Rubber Co
Pure Carbon Co
Roberts Toledo Rubber Co
Rodic Chemical & Rubber Corp
Sealol Corp
Standard Products Co
Standard Seal Co
Steel-Bronze Sealing Rings Co

STEMCO MFG CO

TRANSIT PARTS CO

Tri-Point Plastics Inc
Trostal Packings Ltd
Union Bearing Co

Oscilloscopes to Paint Removers

OIL SEALS—*continued*

UNITED STATES RUBBER CO

Universal Oil-Seal Co
Victor Mfg & Gasket Co
Western Felt Works

OIL SOLVENTS *See Cleaning Compounds & Solvents*

OIL STORAGE TANKS *See Tanks, Fuel & Oil Storage*

OPENERS, BUS DOOR *See Bus Door Motors*

O-RING SEAL *See Oil Seals*

OSCILLOSCOPES

Du Mont Laboratories Inc Allen B ..
Empire Electronics Inc
Heyer Industries Inc

SNAP-ON TOOLS CORP

Sun Electric Corp
Weidenhoff Inc Joseph

OVERHEAD DOORS *See Doors*

OXYGEN GAS

Air Reduction Sales Co
Burdett Oxygen Co of Cleveland Inc

LINDE CO

Liquid Carbonic Div
National Cylinder Gas Div

PACKERS, BEARING *See Bearing Packers*

PADS, PEDAL *See Pedal Pads*

PAINT

PAINTS, Acid-Resisting

Arco Co

DU PONT DE NEMOURS & CO E I FINISHES DIV

GATES ENGINEERING CO

Glidden Co

MAGNUS CHEMICAL CO INC

MOBIL OIL CO

PITTSBURGH PLATE GLASS CO

SHERWIN-WILLIAMS CO

PAINTS, Alkali-Resisting

Arco Co

DU PONT DE NEMOURS & CO E I FINISHES DIV

GATES ENGINEERING CO

Glidden Co

MAGNUS CHEMICAL CO INC

MOBIL OIL CO

PITTSBURGH PLATE GLASS CO

SHERWIN-WILLIAMS CO

PAINTS, Aluminum & Bronze

Arco Co

DU PONT DE NEMOURS & CO E I FINISHES DIV

GATES ENGINEERING CO

Glidden Co

MAGNUS CHEMICAL CO INC

MOBIL OIL CO

PITTSBURGH PLATE GLASS CO

SHERWIN-WILLIAMS CO

PAINTS ENAMEL

Acme Quality Paints Inc
Akron Paint & Varnish Co
American Lacquer Solvents Co
American Paint Co
American Varnish Co
Arco Co
Automotive Finishes Inc
Baer Bros
Bruning Bros Inc

DITZLER COLOR DIV

DU PONT DE NEMOURS & CO E I FINISHES DIV

Dupli-Color Products Co
Flood & Conklin Co
Forbes Finishes Div
Frost Paint & Oil Corp
Glidden Co
Hock Paints Inc
Horn Co A C Products Finishes Div
Illinois Bronze Powder Co
Interstate Enamel & Varnish Co
Krylon Inc
McDougall-Butler Co

MAGNUS CHEMICAL CO INC

Martin-Senour Co
Midland Paint & Varnish Co

MOBIL OIL CO

Modern Paint Co
Nason & Co R N
Oxidermo Products Inc
Pittsburgh Plate Glass Co Paint Div
Plasti-Kote Inc
Pratt & Lambert Inc
Rinshed-Mason Co

SHERWIN-WILLIAMS CO

Standard-Toch Chemicals Inc
Steelcote Mfg Co
V E P Co
Vita-Var Corp
Vulcan Varnish Co
Wilbur & Williams Co
Zac-Lac Paint & Lacquer Corp

PAINTS LACQUER

Acme Quality Paints Inc
American Lacquer Solvents Co
American Paint Co
Arco Co
Automotive Finishes Inc
Bakelite Corp
Briggs Mfg Co
Day & Co James B

DITZLER COLOR DIV

DU PONT DE NEMOURS & CO E I FINISHES DIV

Flood & Conklin Co
Forbes Finishes Div
Glidden Co
Horn Co A C Products Finishes Div
Illinois Bronze Powder Co
Martin-Senour Co
Nason & Co R N
Nikolas & Co G J
Oxidermo Products Inc
Pittsburgh Plate Glass Co Paint Div
Plasti-Kote Inc
Rinshed-Mason Co

SHERWIN-WILLIAMS CO

Standard-Toch Chemicals Inc
Zac-Lac Paint & Lacquer Corp

PAINTS, Special Type

ALUMINUM CO OF AMERICA

Aluminum Industries Inc
Arco Co
Battenfield Grease & Oil Corp

DITZLER COLOR DIV

E I DU PONT DE NEMOURS & CO FABRICS & FINISHES DEPT

Forbes Finishes Div
Frost Paint & Oil Corp

GATES ENGINEERING CO

Glidden Co
Hock Paints Inc
Illinois Bronze Powder Co
Interstate Enamel & Varnish Co

LAWTER CHEMICALS INC

MAGNUS CHEMICAL CO INC

Markal Co

MOBIL OIL CO

Modene Paint Co
Oil-Dri Corp of America

PITTSBURGH PLATE GLASS CO

Plasti-Kote Inc
Prufcoat Laboratories Inc
Quigley Co

REYNOLDS METALS CO

Sauereisen Cements Co
Sheffield Bronze Paint Corp
Stonhard Co

SHERWIN-WILLIAMS CO

Vita-Var Corp

PAINT HEATERS, HOT SPRAY *See Heaters, Paint Hot Spray*

PAINT MASKING *See Masking*

PAINT REMOVERS

Acme Quality Paints Inc
Amchem Products Inc
American Varnish Co
Arco Co
Ball Chemical Co
Barr & Co W M
Beck Equipment Co
Brown Solvents Corp
Brulin & Co
Cee-Bee Chemical Co
Celco Corp
Cooper Co D C
Day & Co James B
Delta Chemical Co
Detrex Chemical Industries Inc

DITZLER COLOR DIV

DU PONT DE NEMOURS & CO E I FINISHES DIV

Ensign Products Co
Fine Organics Inc
J B Ford Div
Fischer Industries Inc
Gerlach Co E A

Paint Spray Booths to Piston Skirt Expanders

Glidden Co
Illinois Bronze Powder Co
Industrial Chemical Products Co
Kelite Corp
Kelite Products Corp
Klem Chemicals Inc
Lea Mfg Co

MAGNUS CHEMICAL CO

Manpro Corp
Modene Paint Co
Morris Paint & Varnish Co
Nason & Co R N
Northwest Chemical Co

OAKITE PRODUCTS INC

Octagon Process Inc
Paint Remover Chemical Corp
Panther Chemical Co
Peck's Products Co
Penetone Co
Permo Products Corp
Pratt & Lambert Inc
Rossaul Co

SHERWIN-WILLIAMS CO

Standard Toch Chemicals Inc
Steelcote Mfg Co
Turco Products Inc
Wilbur & Williams Co
Wilson Imperial Co

PAINT SPRAY BOOTHS

Binks Mfg Co
Black Mfg Co
Burdett Mfg Co
Cincinnati Cleaning & Finishing Machinery Co
DeVilbiss Co
M & E Mfg Co
Mahon Co R C
Metallizing Engrg Co
Paasche Airbrush Co
Schmieg Industries Inc
Spray Engineering Co
Young & Bertke Co

PAINT SPRAYERS

Binks Mfg Co
Black Mfg Co
Brown Corp W R
Campbell-Hausfeld Co
Cleveland Container Co
Decora Mfg Co
DeVilbiss Co
Dupli-Color Products Co
Electric Sprayit Div
G M Mfg Co Inc
Gray Co
Idico Products Co
Kelite Corp
Klepp Bros Inc

LINCOLN ENGINEERING CO DIV

M & E Mfg Co
Master Mfg Co
Meiser & Co G H
Nordson Corp
Paasche Airbrush Co
Pioneer Air Compressor Co
Plummer Spray Equipment Co
Ransburg Electro-Coating Co
Saylor-Beall Mfg Co
Sharpe Mfg Co
Spray Engineering Co
Wilson Inc K R

PAINT STRIPERS

Wendell Manufacturing Co

PARKING BRAKES *See Brakes, Parking*

PARKING LAMPS *See Lamps*

PARTS *See Brake Parts, Clutch Parts, Front End Parts, Ignition Parts, etc.*

PASSENGER CARS, RENTAL *See Leasing Company (Nationwide)*

PASSENGER CARS

AMERICAN MOTORS CORP (American Rambler Ambassador)

Buick Div
Cadillac Div
Checker Motors Corp (Checker taxicab Superba car)

CHEVROLET DIV (Chevrolet Corvair Corvette)

Chrysler Div (Chrysler Imperial)
Dodge Div (Dodge Dodge Dart)

FORD DIV (Ford Falcon Thunderbird)

M-E-L Div (Mercury Edsel Lincoln Continental)

PLYMOUTH DESOTO VALIANT DIV

Pontiac Div
Oldsmobile Div

STUDEBAKER-PACKARD CORP (Lark Studebaker Hawk)

PEDAL PADS

American Automatic Devices Co
Anchor Rubber Product Div
Doan Mfg Corp Div

FIRESTONE TIRE & RUBBER CO

Kastar Inc
Kravex Mfg Corp
Loock & Co R J
Monarch Rubber Co
Moore & Co
Ohio Rubber Co

PORTER CO H K FORGE & FITTINGS DIV

Radiator Specialty Co
Roberts Toledo Rubber Co
Rodic Chemical & Rubber Corp
Visionade Mfg Co

PEDAL DEPRESSORS, BRAKE *See Brake Pedal Depressors*

PET COCKS *See Drain Cocks*

PINS, KING *See King Pins*

PIPES, EXHAUST *See Exhaust & Tail Pipes*

PINS, PISTON *See Piston Pins*

For addresses of manufacturers, see the new special section starting on **page 199**

PISTONS

Al-Fin Div Fairchild Engine & Airplane Corp

ALLIED AUTOMOTIVE PARTS CO

Aluminum Alloys Corp

ALUMINUM CO OF AMERICA

Aluminum Industries Inc

AMERICAN HAMMERED DIV

Arrow Head Steel Products Co
Badger Mfg Co
Bohn Aluminum & Brass Corp

CONTINENTAL MOTORS CORP

Edebrock Equipment Co
Elgin Machine Works Inc
Ertel Products Co Repl Div

GILLET & EATON INC

Hi-Duty Products Corp

McQUAY-NORRIS MFG CO

Nylen Products Inc
Ohio Piston & Machinery Co

SEALED POWER CORP

Sterling Aluminum Products Inc

THOMPSON PRODUCTS REPLACEMENT DIV

Toledo Steel Products Div
Triplex Corp of America Div
Tsungani Piston Co

UNITED ENGINE & MACHINE CO

White Machine Works

ZOLLNER CORP

PISTON REGROOVERS

PERFECT CIRCLE CORP

Zim Mfg Company

PISTON RESIZERS

Burd Piston Ring Co
Groove-Rite Tool Co
Lisle Corp

McQUAY-NORRIS MFG CO

Moog Industries Inc

PERFECT CIRCLE CORP

RAMSEY CORP

Tillis Mfg Co

PISTON SKIRT INSERTS, Expanders

Haling Co

McQUAY-NORRIS MFG CO

PERFECT CIRCLE CORP

Roberts Mfg Co
Thexton Mfg Co
Wherry Engineering Co

PISTON SKIRT EXPANDERS

Haling Co

McQUAY-NORRIS MFG CO

PERFECT CIRCLE CORP

Roberts Mfg Co
Thexton Mfg Co
Wherry Engineering Co

Piston Ring Groove Cleaning Tools to Polish & Wax

PISTON RING GROOVE CLEANING TOOLS

Aircraft Specialties Inc
All-Power Mfg Co
Burd Piston Ring Co
Cal-Van Machine Products Inc
Duro Metal Products Co
Groove-Rite Tool Co

HASTINGS MFG CO

Herbrand Div
Lisle Corp
Master Signal Co

McQUAY-NORRIS MFG CO

Miller Co L B
National Machine & Tool Co
New Britain Machine Co
Owatonna Tool Co
Peterson Co Paul
Proto Tools
Rinck-McIlwaine Inc

SNAP-ON TOOLS CORP

Stromgren Co
Wilde Drop Forge & Tool Co
Wood Co Frank N
Zim Mfg Co

PISTON TURNING & GRINDING MACHINES

CEDAR RAPIDS ENGRG CO

Cincinnati Milling Machine Co
Landis Tool Co
Norton Co
Storm-Vulcan Inc
Van Norman Automotive Equipment Co

PISTON VISES

Groove-Rite Tool Co

HASTINGS MFG CO

Kent-Moore Organization Inc
Lempco Products Inc
Production Devices Inc
Stevens Walden Inc
Zim Mfg Co

PISTON PINS

Aircraft & Automotive Products Inc

ALLIED AUTOMOTIVE PARTS CO

Aluminum Industries Inc

AMERICAN HAMMERED DIV

Andrew Parts Mfg Co
Brown Corp
Burgess-Norton Mfg Co
Elgin Machine Works
Ertel Mfg Co
Kings County Centerless Grinding Co

McQUAY-NORRIS MFG CO

Marquette Div
Monmouth Products Co
Nylen Products Inc
Ohio Piston & Machinery Co
Ottawa Steel Products Inc
Perfect Parts Inc

SEALED POWER CORP

Simplex Products Corp
Thompson Products Inc
Toledo Steel Products Div
White Machine Works

PISTON PIN VISES

Ammco Tools Inc
Lempco Products Inc

SUNNEN PRODUCTS CO

PISTON PIN BUSHING BORING MACHINE

CEDAR RAPIDS ENGRG CO

Ex-Cell-O Corp
Lempco Products Inc
Tobin-Arp Mfg Co

PISTON PIN BUSHING HONES *See Hones, Small Bore*

PISTON PIN REMOVING & INSTALLING TOOLS

Clark-Feather Mfg Co
Herbrand Div
Kent-Moore Organization Inc
Lisle Corp
Manzel Unit
Master Signal Co
New Britain Machine Co Hand Tools Div
Owatonna Tool Co
Proto Tool Co

SUNNEN PRODUCTS CO

Winona Tool Mfg Co
Zoerman-Clark Mfg Co

PISTON RINGS

Ace Products Co

AMERICAN HAMMERED DIV

Burd Piston Ring Co
Cord Piston Ring Mfg Co
Double Seal Ring Co
Gill Piston Ring Co
Gilpak Automotive Products Div

HASTINGS MFG CO

International Parts Corp
Koppers Co Metal Products Div
Lion Auto Parts & Mfg Co
Luthy Co F A

McQUAY-NORRIS MFG CO

Moog Industries Inc
Muskegon Piston Ring Co
Pacific Piston Ring Co

PERFECT CIRCLE CORP

RAMSEY CORP

Republic Engrg & Mfg Co
Richmond Ring Co

SEALED POWER CORP

Simplex Piston Ring Mfg Co
Steel-Bronze Sealing Rings Co
Superior Piston Ring Co
Wausau Motors Parts Co
White Machine Works

WILKENING MFG CO

PISTON RING COMPRESSING TOOLS

Aircraft Specialties Inc
Burd Piston Ring Co
Cornwell Quality Tool Co
Duro Metal Products Co
Grayson Tool Co

HASTINGS MFG CO

Kastar Inc
Kennedy Service Tools Co
Kent-Moore Organization Inc
Lisle Corp

McQUAY-NORRIS MFG CO

Manzel Unit
Master Signal Co
National Machine & Tool Co
New Britain Machine Co Hand Tools Div
Owatonna Tool Co
P&C Tool Co
Proto Tools
Rinck-McIlwaine Inc

SNAP-ON TOOLS CORP

Wilde Drop Forge & Tool Co

WILKENING MFG CO

J H Williams & Co
Zim Mfg Co

PISTON RING EXPANDERS

Burd Piston Ring Co
Cornwell Quality Tools Co

HASTINGS MFG CO

K-D MANUFACTURING CO

McQUAY-NORRIS MFG CO

Manzel Unit

RAMSEY CORP

SEALED POWER CORP

Smalley Accessories Corp

WILKENING MFG CO

PLATES, CLUTCH PRESSURE *See Clutch Pressure Plates*

PLATES, FLOORING *See Flooring, Truck & Trailer*

PLATES, STEP *See Step Plates*

PLIERS, BRAKE SPRING *See Tools, Brake Spring*

PLOWS, SNOW *See Snow Plows*

PLUGS, SPARK *See Spark Plugs*

PLYWOOD PANELS

EVANS PRODUCTS CO

Georgia-Pacific Plywood Co
Harbor Plywood Corp
Haskelite Mfg Corp
Met-L-Wood Corp
Technical Ply-Woods Sales
United States Plywood Corp

PNEUMATIC TOOLS & EQUIPMENT *See item desired*

POINTS, IGNITION *See Ignition Parts*

POLISH & WAX (Body)

Acme Quality Paints Inc

ALBERTSON & CO

Allube Corp
Alsol Products Co
Atomix Inc
Ball Chemical Co
Bandimere Mfg Co
Barton Products Co
Bell Co

Power Take-Offs to Pullers

BLACK & DECKER MFG CO
Bostwick Laboratories Inc
Bowes "Seal Fast" Corp
Boyle-Midway Inc
Campbell Paint & Varnish Co Div
Cannon Chemical Co
Collienite Chemical Co
Colorgio Products Inc
Drew & Co E T Automotive Chemicals Div
du Pont de Nemours & Co E I Chemical Specialties Div
Ensign Products Co
Freeman & Freemand Inc
Garry Laboratories Inc
Glisten Co
Gold Eagle Products Co
Hollingshead Corp R M
International Metal Polish Co
Johnson & Son Inc S C
Jones Products Co
Kammel Products Corp
Ken-Nite Co
Lee Polish Mfg Co
Liquid Glaze Inc
Liquid Veneer Corp
Livingston Co
Lusco Inc
Mac's Super Gloss Co
Milwaukee Electric Tool Corp
Mirror Bright Polish Co
MOBIL OIL CO
NATIONAL CARBON CO
Nu-Wipe-Lacquerwax Inc
Park Chemical Co
PITTSBURGH PLATE GLASS CO
Penray Co
PERMATEX CO
Rawhide Products Co
Regal Air Corp
SHELL OIL CO
Simoniz Co
SINCLAIR REFINING CO
Speco Inc
Stain-Ox Co
Stanley Co John T
Tumbler Laboratories J A
Turco Products Inc
U S Chemical & Supply Co
UNION CARBIDE CONSUMER PRODUCTS CO DIV
Universal Chemical Div
Warehouse Distributing Co
Westley Industries
Wilco Co
Wilson Imperial Co
Woodside Industries
Zecol Inc

POLISHERS, PORTABLE ELECTRIC *See Sanders, Portable Electric*

POLISHERS, PORTABLE PNEUMATIC *See Sanders, Portable Pneumatic*

POLISHING COMPOUNDS *See Compounds, Rubbing & Polishing*

POWER, STEERING *See Steering Gear Power Systems*

POWER TAKE-OFFS

Adams Engineering Co
Arrow Gear Co
Cemco Industries Inc
Chelsea Products Inc
Cotta Transmission Co
Couse Mfg Inc
DANA CORP
Detroit Harvester Co
Funk Aircraft Co
Gar Wood Industries Inc Wayne Div
Heil Co
HENDRICKSON MFG CO
HIGHWAY TRAILER CO
Holan Corp
Lempco Products Inc
Maday Body & Equipment Corp
Mobile Power Co
Muncie Parts Mfg Co
ROCKFORD CLUTCH DIV
Stimmel Winch Co
STOW MFG CO
TEC DIV—HEIL CO
Truckstell Mfg
TULSA WINCH DIV
Twin Disc Clutch Co
Waterous Co
WATSON CO H S
Western Gear Works

PRESSES, DRILL *See Drill Presses*

PRESSES, Hydraulic

(See also Rams)

Acromark Co
Air Hydraulics Inc
American Broach & Machine Div
AMERICAN CHAIN & CABLE CO AUTOMOTIVE & AIRCRAFT DIV
Anderson Bros Mfg Co
Baldwin-Lima-Hamilton Corp
Bee-Line Co
Birdsboro Steel Foundry & Machine Co
BLACKHAWK MFG CO
Bliss Co E W
Chambersburg Engrg Co
Champion Blower & Forge Co
CHICAGO PNEUMATIC TOOL CO
Clearing Machine Corp
Clifton Hydraulic Press Co
Colton Co Div
Dake Corp
Denison Engineering Co
Detroit Broach Co
Elmes Engineering Div
Erie Foundry Co
Famco Machine Co
Farquhar Div
Fox Engrg Co
French Oil Mill Machinery Co
General Mfg Co
Greenerd Arbor Press Co
Hannifin Corp
Hill Inc Walter P
Hydraulic Press Mfg Co
Kane & Roach
Lake Erie Machinery Co
Lapointe Machine Tool Co
Lempco Products Inc
Link Engrg Co
Lodge & Shipley Co
Logan Engrg Co
Logansport Machine Co
Manley Div
Manzel Unit
Mead Specialties Co
Mesta Machine Co
Niagara Machine & Tool Works
Nugier Co F A
Owatonna Tool Co
Paul Machine Tool & Die Works
Rodger Hydraulic Inc
Rotex Punch Co
Schildmeier Co H C
SNAP-ON TOOLS CORP
Studebaker Hydraulic Products Co
Sutton Engrg Co
Tobin-Arp Mfg Co
Treadwell Tap & Die Co
Tripp F A
Verson Allsteel Press Co
Watson-Stillman Press Div
Williams White & Co
Wilson Inc K R
Winona Tool Mfg Co
Wright Tool Co

PRESSES, WHEEL STRAIGHTENING *See Wheel Straighteners*

PREVENTIVES, RUST *See Radiator Rust Inhibitors*

PRIMERS, Engine

Automotive & Marine Products Corp
CALIFORNIA OIL CO
The Houston Co
IMPERIAL BRASS MFG CO
STANDARD OIL CO OF CALIF
STANDARD OIL CO OF TEXAS
Start Pilot Corp

PROPANE *See Fuels*

PROPELLER SHAFTS

Cleveland Steel Products Corp
DANA CORP
Detroit Bevel Gear Co
Dittmer Gear & Mfg Corp
Lempco Products Inc
Mechanics Universal Joint Div
Neapco Products Inc
Republic Gear Co
REPUBLIC STEEL CORP STEEL AND TUBES DIV
ROCKWELL-STANDARD CORP TRANSMISSION & AXLE DIV
SAGINAW STEERING GEAR DIV
Spencer Mfg Co
U S AXLE CO

PROTECTIVE COATING *See Coating, Protective*

PULLERS, Axle Shaft

Herbrand Div
Hunt Mfg Co Geo L
K-D MANUFACTURING CO
Kaywood Products Corp
Ken-Tool Mfg Co
Manzel Unit
Owatonna Tool Co
P & C Tool Co
Proto Tool Co
SNAP-ON TOOLS CORP
Springfield Wheel Puller Co
Wright Tool Co

RETIRE OLD CABLE BEFORE IT DIES IN

ACTION ...replace with dependable PACKARD cable

Prevention is cheaper than cure. That's why it's a standing order in many fleet maintenance departments: At any sign of age or weakness, replace with new Packard cable immediately.

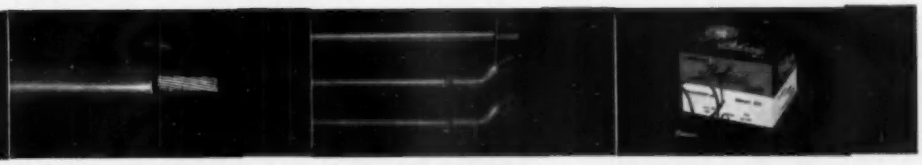
Why Packard cable? Because Packard Electric engineers have developed special insulations that resist the oil and acids of every engine and lengthen cable life. Packard cable retains its flexibility while it resists abrasion. It's made to stand up to heat and cold, corona and age. No wonder Packard cable delivers more miles of service at less cost per mile.

Packard is the *original equipment* line that is used more than all other makes combined. Packaged and labeled for error-proof replacement, it's available everywhere through the United Motors System.

Steam cleaning can't harm Packard Engine Compartment Cable

This compact, highly flexible low-tension cable is designed by Packard engineers to stand up under the toughest operating conditions. It's triple insulated with a tough synthetic compound, close-knit glass braid and an outer jacket of a special Packard compound. It withstands high temperatures, diesel fuel and oil vapors—even the chemicals used in steam cleaning! It's one more reason why Packard is first choice for both original equipment and replacement.

There's a Packard Cable for every fleet need.



SUPER DUTY CABLE created for exposed conditions. Tough insulation resists weather, wear and knocks.

T.V.R.S. CABLE developed to eliminate radio-TV interference, used on more cars than any other.

"440" IGNITION CABLE designed for high-tension service. Installed on millions of vehicles.

Packard Electric

Warren, Ohio

GM GENERAL MOTORS

"Live Wire" division of General Motors

Pullers to Radiator Leak Detectors

PULLERS, Bearing, Gear & Wheel

Armstrong-Bray & Co
BARRETT EQUIPMENT CO
Beauloye Engrg Co
BLACKHAWK MFG CO
C & G Wheel Puller Co
Cal-Van Machine Products Inc
Campbell Auto Works
Crane Puller Co
Duro Metal Products Co
Gerb Co
Herbrand Div
Hunt Mfg Co Geo L
Indestro Mfg Co
K-D MFG CO
Kennedy Service Tools Co
KEN-TOOL MFG CO
Kent-Moore Organization Inc
Manzel Unit
Martindale Electric Co
Miller Mfg Co
National Machine & Tool Co
National Machine Works Inc
New Britain Machine Co Hand Tools Div
Owatonna Tool Co
P & C Tool Co
Proto Tools
Rovtar Tool-Die Mfg Co
SNAP-ON TOOLS CORP
Springfield Wheel Puller Co
Templeton Kenly & Co
Weidenhoff Corp
Williams & Co J H
Wilson Inc K R
Wright Tool & Forge Co
Zim Mfg Co
Zoerman-Clark Mfg Co

PULLERS, Cylinder Liner (Sleeve)

Fort Dodge Machine & Supply Co
Herbrand Div
Hunt Mfg Co Geo L
National Machine & Tool Co
Owatonna Tool Co
Proto Tool Co

PUMPS, VACUUM BRAKE *See Brake Vacuum Systems*

PUMPS, Drum or Barrel Type

BENNETT PUMP DIV
Binks Mfg Co
LINCOLN ENGINEERING CO DIV
Templeton Co The
TOKHEIM CORP
Practical Products Co

PUMPS, DIESEL *See Fuel Pumps, Diesel*

PUMPS, GASOLINE *See Fuel Pumps, Gasoline*

PUMPS, FUEL (SERVICE STATION) *See Fuel Pump (Service Station)*

PUMPS, OIL *See Oil Pumps*

PUMPS, WATER *See Water Pumps*

RACKS, Stock, Storage

Akro-Mils Inc
Angle Steel Stool Co
Balloon Tire Mold Co
Barrett-Cravens Co
Bay Products Div
BERGER DIV
Bernard Franklin Co
Bernard Gloekler North East Co
BRANICK MFG CO
Brown Engineering Co
Coats Co
Durlack Can & Iron Works
Economy Engineering Co
Equipto Div
Factory Service Co
Fenton Industries
Frick-Gallagher Mfg Co
Haertel Co Walter
Heller & Co W C
Kirspel Industries Inc
Lewis-Shepard Products Inc
Logan Co
Lyon Metal Products Inc
Mechanical Handling Systems Inc
Morrison Railway Supply Corp
Paltier Corp
Republic Steel Corp Pressed Steel Div
Revolvator Co
Unistrut Products Co

RADIATORS

RADIATORS, Engine Cooling

Auto Radiator Mfg Co
Beacon Auto Radiator Co
Blackstone Corp
Daniel Radiator Mfg Co
Fedders-Quigan Corp Co
G & O Mfg Co
General Radiator Co
HARRISON RADIATOR DIV
LAKE AUTO RADIATOR MFG CO
Long Mfg Div
McCord Corp
Modine Mfg Co
Paragon Auto Radiator Corp
Perfex Corp
Yates-American Machine Co
Young Radiator Co

RADIATOR BUG SCREENS

Jax Manufacturing Co

RADIATOR CAPS

AC SPARK PLUG ELECTRONICS DIV
American Insulator Corp
Badger Mfg Corp
Berkson Products Inc
The Dole Valve Co
DORMAN PRODUCTS INC
Eaton Mfg Co Stamping Div
EVERHOT MFG CO
Loock & Co R J
Namsco Inc
Norlipp Co
Rockford Metal Products Inc
Sal Metal Products Co
STANT MFG CO
Victor Instrument Mfg Co
Wayne Metalcraft Div
Wheel Parts & Mfg Co

RADIATOR CLEANERS (Chemical)

Aeroil Products Co
du Pont de Nemours & Co E I Grasselli Chemical Dept
HOMESTEAD VALVE MFG CO
Inland Mfg Co
MAGNUS CHEMICAL CO
Park Chemical Co
UNION CARBIDE CONSUMER PRODUCTS CO DIV

RADIATOR COOLING FANS *See Fans, Cooling System*

RADIATOR COOLANT TESTER *See Hydrometers*

RADIATOR COVERS (Fabric)

Bemis Bros Bag Co

RADIATOR FLUSHERS *See Cooling System Flushers*

RADIATOR GRILLES

Ainsworth-Prevision Castings Co Div
Cutler Metal Products Co
Doehler Die-Casting Co
EATON MFG CO
Excel Corp
Jacobs Co F L
Mirro Aluminum Co
Saginaw Industries Co
Standard Products Co
Zenite Metal Corp

RADIATOR GRILLE GUARDS

American Forging & Socket Co
Belmor Mfg Co
Calco Steel Products Co
Champion Sheet Metal Co
Detroit Cover Co
Gichner Iron Works Inc
Hamlin Metal Products Co
Helms Industrial Development Co
Henry Mfg Co
Hinson Mfg Co
Hutchinson Co
Parker Products Inc
Temme & Co W H
Western Metal Specialty Div
Youngstown Kitchens Div

RADIATOR HOSE *See Hose Radiator*

RADIATOR LEAK DETECTORS

AC SPARK PLUG ELECTRONICS DIV
Allen Electric & Equipment Co
Eaton Mfg Co Stamping Div
Edelman & Co E
Enell Associates Inc
Inland Mfg Co
James Industries Inc
MAGNAFLUX CORPORATION
NATIONAL CARBON CO
P & G Mfg Co
Radiator Specialty Co

Radiator Rust Inhibitors to Reamers

SPRAGUE DEVICES INC
STANT MFG CO
Sun Electric Corp

RADIATOR SEALING COMPOUNDS

Bar's Products Supply Inc
DU PONT DE NEMOURS & CO E I FINISHES DIV
Hollingshead Corp R M
K & W Products Inc
Lusco Inc
Miller Mfg Co
MOBIL OIL CO
Motor Kool Products Co
Olin Mathieson Chemical Corp
PERMATEX CO
Producers Ltd
Pure Oil Co
SINCLAIR REFINING CO
Sodrin Corp
Stanley Co John T
Tincher Products Co
UNION CARBIDE CONSUMER PRODUCTS CO DIV
Versnick Mfg Co

RADIATOR RUST INHIBITORS

ALEMITE DIV
Allube Corp
Alox Corp
Alsol Products Co
Aluminum Industries Inc
American Sand-Banum Co
Bar's Products Supply Inc
Barton Products Co
Bell Co
Bowes "Seal Fast" Corp
Butler Engineering Co
Cannon Chemical Co
Chicago Hydraulic Oil Co
CHOLDUN MFG CORP
COMMERCIAL SOLVENTS CORP
Drew & Co E F
DU PONT DE NEMOURS & CO FINISHES DIV
Gold Eagle Products Co
Grace Products Inc
Hollingshead Corp R M
HOMESTEAD VALVE MFG CO
Hood Refining Co
Insealtor Inc
International Metal Polish Co
Kelite Corp
K & W Products Inc
L & R Mfg Co
Lenk Mfg Co
Mac's Super Gloss Co
MAGNUS CHEMICAL CO
Master Automotive Chemicals Inc
Mirrorlike Mfg Co
MOBIL OIL CO
Motor Kool Products Co
NATIONAL CARBON CO
OAKITE PRODUCTS INC
Olin Mathieson Chemical Corp
Park Chemical Co
Pennsylvania Refining Co
PERMATEX CO
Permo Products Co
Producers Ltd
Radiator Seal Co
Radiator Specialty Co
Reynolds Ink Inc
Rust Master Chemical Co
Service Supply Co
SINCLAIR REFINING CO
Sodrin Corp
Speco Inc
Stanley Co John T
Sun Oil Co
Tumbler Laboratories J A
U S Chemical & Supply Co
UNION CARBIDE CONSUMER PRODUCTS CO DIV
Universal Chemical Div
V-O Mfg Co
Walker Mfg Co of Wis
Warehouse Distributing Co
Warner-Patterson Co
Water Treatment Co of America
Wayne Chemical Products Co
Wilco Co
Wynn Oil Co
"X" Laboratories Inc
Young Radiator Co
Zecol Inc

RADIATOR SHUTTERS

Brewer-Titchener Corp
Hardy Mfg Corp
KYSOR HEATER CO

RADIATOR PRESSURE TESTERS

AC SPARK PLUG ELECTRONICS DIV
Allen Electric & Equipment Co
Edelmann & Co E
Enell Associates Inc
Fisher & Porter Co
Inland Mfg Co
P & G Mfg Co
Radiator Specialty Co
Spotrim Corp
STANT MFG CO
Truckstell Products Co

RADIOS, Two-Way

Bendix Radio Communications Div Communications Co
Du Mont Laboratories Inc Allen B
Federal Telephone & Radio Co
General Electric Co Communication Products Dept
Gonset Div
Kaar Engrg Corp
MOTOROLA COMMUNICATIONS & ELECTRONICS INC
Radio Corp of America
RADSON ENGINEERING CORP

RAMPS, DOCK *See Dock Ramps, Adjustable*

For addresses of manufacturers, see the new special section starting on **page 199**

RAMS, Hydraulic

AUTO SPECIALTIES MFG CO
John Bean Div
Bee-Line Co
BLACKHAWK MFG CO
GLOBE HOIST CO
HEIN-WERNER CORP
Livingston Mfg Co
Munton Mfg Co
Owatonna Tool Co
Porter Inc H K
Stephenson Foundry & Mfg Co J O
Templeton Kenly & Co
Wright Tool Co

REAMERS, Main & Connecting Rod Bearing

Keystone Reamer & Tool Co
WATERVLIET TOOL CO
Wilson Inc K R

REAMERS, Power Drive

Barber-Colman Co
Besly-Welles Corp
Cleveland Twist Drill Co
Gairing Tool Co
Gammons-Hoaglund Co
Goddard & Goddard Co
Illinois Tool Works
Jarvis Corp
Lee Co K O
Lempco Products Inc
McCrosky Tool Corp
National Twist Drill & Tool Co
Pratt & Whitney Co
Reasor Mfg Co
Reiff & Nestor Co
Reltool Corp
Standard Tool Co
Twentieth Century Mfg
United States Electrical Tool Co

REAMERS, CYLINDER RIDGE *See Ridge Reamer*

REAMERS, Solid & Adjustable

Arrow Tool & Reamer Co
Barber-Colman Co
Beard Tool Co L O
Besly-Welles Corp
Chadwick & Trefethen
Chicago-Latrobe
Cleveland Twist Drill Co
Cornwell Quality Tools Co
Do All Co
Gairing Tool Co
Goddard & Goddard Co
Greenfield Tap & Die Div
Heller Tool Co
Hill Nut Co
Hjorth Lathe & Tool Co
Jarvis Corp
Keystone Reamer & Tool Co
Lee Co K O
Lempco Products Inc
McCrosky Tool Corp
Madison Mfg Co
Manzel Unit
Martindale Electric Co
National Machine & Tool Co
National Twist Drill & Tool Co
New Britain Machine Co Hand Tool Div
O K Tool Co

Reflective Materials to Relays

REAMERS—*continued*

Pratt & Whitney Co
Production Tool Co of America
Reasor Mfg Co
Reiff & Nestor Co
Reltool Corp
Shearcut Tool Co

SNAP-ON TOOLS CORP

Standard Tool Co
Staples Tool Co
Tomkins-Johnson Co
Union Twist Drill Co
Union Twist Drill Co Butterfield Div
Vaco Products Co
Vermont Tap & Die Corp

WATERVLIET TOOL CO

Waukesha Cutting Tools Inc
Wendt-Sonis Co
Wesson Tool Co
Wetmore Reamer Co
Whitman & Barnes Div of United Drill & Tool Corp
Wickman Mfg Co
Willey's Carbide Tool Co
Wilson Inc K R
Zoerman-Clark Mfg Co

REAMERS, VALVE SEAT *See Valve Seat Grinders*

REAR AXLE ASSEMBLIES *See Axles, Rear Assembly*

REAR VIEW MIRRORS *See Mirrors*

REBORING BAR (FOR CYLINDER REBORE) *See Boring Bars*

RECAPPING EQUIPMENT *See Tire Recapping Equipment*

RECAPPING SERVICE *See Tire Recapping Service*

RECLAIMERS, CRANKCASE OIL *See Oil Reclaimers*

RECORDERS, VEHICLE MOVEMENT *See Tachographs*

RECORDING THERMOMETERS *See Thermometers*

RECORDS, FLEET FORMS, *See Forms, Fleet Records*

REFACERS, VALVE *See Valve Refacers*

REFILLS, OIL FILTERS *See Oil Filter Cartridges*

REFLECTIVE MATERIALS

By-Cuck Co

MINNESOTA MINING & MFG CO

Ohio Decalcomania Co
Prismo Safety Corp

REFLECTORS, Safety

American Automatic Devices Co
Amesbury Metal Products Co

ANTHES FORCE OILER CO

ARROW SAFETY DEVICE CO

Auto Lamp Mfg Co
Bolser Corp
Brown Co E C
Cole Automotive Products Co
Do-Ray Lamp Co
Electroline Mfg Co
Griffin Lamp Co

GROTE MFG CO

Gulotta Co Charles
Johnson Glass & Plastic Corp
Miro-Flex Co
Norlipp Co
Persons-Majestic Mfg Co
Peterson Mfg Co
S&M Lamp Co

SIGNAL-STAT CORP

Snow-Craggs Corp
Sparton Automotive Div
Speaker Corp J W
Stimsonite Div
Vari-Products Co
Wheel Parts & Mfg Co

YANKEE METAL PRODUCTS CORP

REFRIGERATING UNITS, Truck & Trailer

Air Induction Corp
American Mfg Co

AUTAC INC

Brunner Div
Copeland Refrigeration Corp
Dole Refrigerating Co
Foster-Built Bunkers Inc

FRANK-DEWEY CO

Frigidaire Div
General Dynamics Corp Liquid Carbonic Div
General Electric Co

HUNTER MFG CO

Keco Industries Inc
Kemi-Kold Corp

KOLD HOLD DIV

Lehigh Mfg Co Div
McGraw Edison Co (Tropic Aire)
Meyer Body Co
Newton-Nordic Co
Preco Inc

PURE CARBONIC CO

SUNDSTRAND HYDRAULIC DIV

Tecumseh Products Co

THERMO KING CORP

Thaurer Wagon Works Inc
Transikold Corp
Tru Kooler Inc

REFRIGERATION CONTROLS

General Controls Co
The Partlow Corp

REFRIGERATOR HOSE *See Hose, Refrigerator*

REGULATORS, Current & Voltage

American Bosch Div
American Motor Products Co
Arrow Armature Co

ROBERT BOSCH CORP

DELCO-REMY DIV

ECHLIN MFG CO

Electra Mfg Co

ELECTRIC AUTOLITE CO

F & B MFG CO

Freedco Products Inc
Guaranteed Parts Co

HOLLEY CARBURETOR CO

Illinois Accessories Co
Internation Products & Mfg Co
Kal-Equip Co
Kem Mfg Co

LEECE-NEVILLE CO

M D Parts Mfg Co
Machined Parts Corp
National Ignition Mfg Co
Niehoff & Co C E

P & D MFG CO

Paragon Products Corp
Preferred Electric & Wire Co
R-B-M Div Essex Wire Corp
Shurhit Products Inc
Sorensen Mfg Co P

STANDARD MOTOR PRODUCTS INC

Stan-Test Corp
Tasco Products Div
Templeton Co The

UNITED MOTORS SERVICE

Valley Forge Products Inc
Wells Mfg Co
Wheel Parts & Mfg Co

REGROOVERS, TIRE *See Tire Regroovers*

REGULATORS, HUMIDITY *See Humidity Regulators*

REGULATORS, Fuel Pressure

Alondra Inc
American Liquid Gas Corp
Beam Products Mfg Co

CENTURY GAS EQUIPMENT MARVEL-SCHEBLER PRODUCTS DIV

ENSIGN CARBURETOR CO

J & S Carburetor Co
Milemaster Inc of America
Zenith Carburetor Div

RELAYS, Electrical

American Motor Products Co

COLE-HERSEE CO

DELCO-REMY DIV

ECHLIN MFG CO

ELECTRIC AUTOLITE CO

F & B MFG CO

Freedco Products Inc
Guaranteed Parts Co
Jubilee Mfg Co
Kem Mfg Co
M D Parts Mfg Co
Machined Parts Corp
New York Coil Co
Niehoff & Co C E

P & D MFG CO

Paragon Products Corp
Pollak Corp Joseph
Preferred Electric & Wire Co

R-B-M Div Essex Wire Corp
Sorensen Mfg Co P
Sparton Automotive Div
Stan-Test Corp
Tasco Products Inc Div
Valley Forge Products Inc
Wells Mfg Corp
Wheel Parts & Mfg Co

REMOVERS, PAINT *See Paint Removers*

RENTAL CARS & TRUCKS *See Leasing Companies (Nationwide)*

REPAIR COMPOUNDS, RADIATOR & BLOCK *See Radiator Sealing Compounds*

RESISTORS, IGNITION *See Ignition Parts*

RETARDERS

FAWICK BRAKE DIV
Thompson Products Div
WAGNER ELECTRIC CORP

REPLACEMENT PARTS

FOMOCO DIV
MO PAR DIV
UNITED MOTORS SERVICE

RETAINERS, OIL AND GREASE *See Oil Seals*

RETREADING EQUIPMENT *See Tire Recapping Equipment*

RIDGE REAMERS

All-Power Mfg Co
Ammco Tools Inc
Beard Tool Co L O
Burd Piston Ring Co
Cornwell Quality Tools Co
HALL-TOLEDO INC
HASTINGS MFG CO
Kent-Moore Organization Inc
Lisle Corp
National Machine & Tool Co
New Britain Machine Co Hand Tools Div
SNAP-ON TOOLS CORP
Zim Mfg Co

RIMS, WHEEL *See Wheel Rims*

RING GEARS, FLYWHEEL *See Flywheel Ring Gear*

RING GEARS & PINIONS *See Axles Ring Gear & Pinion*

RING GEAR RIVETING JIGS

Lempco Products Inc
Manley Div

RING COMPRESSORS *See Piston Ring Compressing Tools*

RING EXPANDERS *See Piston Ring Expanders*

RINGS, PISTON *See Piston Rings*

RIVETING GUN

Bunell Machine & Tool Co
CHICAGO PNEUMATIC TOOL CO
Chicago Rivet & Machine Co
Danly Machines Specialties Inc
Ferracute Machine Co
Grant Mfg & Machine Co
Hanna Engineering Works
Hannifin Corp
High Speed Hammer Co
Hydraulic Press Mfg Co
Independent Pneumatic Tool Co
INGERSOLL-RAND CO
Lemert Engr Co
Lempco Products Inc
Milford Rivet & Machines Co
National Rivet & Mfg Co
Nugier Co F A
"Pop" Rivet Div
Power Brake Parts Mfg Co
Robinson Engineering & Sales Co
Thor Power Tool Co
Tomkins-Johnson Co

RIVETING MACHINE *See Brake Riveting Machine*

RIVETS

Bowman Products Co
Fastex Div
GREY-ROCK DIV
Hi-Shear Rivet Tool Co
HUCK MFG CO
"Pop" Rivet Div
SOUTHCO DIV
Townsend Co (Blind Brake Lining Clutch Facing Tubular)
WORLD BESTOS DIV

ROAD SWEEPERS

Allis-Chalmers Mfg Co
Austin-Western Works Div
Columbia Engineering Service Co
Elgin Sweeper Co
Esiez Manufacturing Co
Frink Sno-Plows Inc
Hough Co Frank G
Little Giant Products Inc
Wilshire Power Sweeper Co

RODS, CONNECTING *See Connecting Rods*

ROLLERS, Highway Construction

Acme Iron Works
Austin Western Works Construction Equipment Div
Browning Manufacturing Co
Buffalo-Springfield Roller Co
C H and E Manufacturing Co
Huber-Warco Co
Seaman-Gunnison Corp
Shovel Supply Co
Standard Steel Works Inc
Tampo Manufacturing Co

For addresses of manufacturers, see the new special section starting on **page 199**

ROTORS, DISTRIBUTORS *See Ignition Parts*

RUBBER MOUNTINGS, INSULATED *See Mountings, Insulated*

RUBBING COMPOUNDS *See Compounds, Rubbing & Polishing*

RUST INHIBITORS, RADIATOR *See Radiator Rust Inhibitors*

SAFETY BELTS *See Seat Belts*

SAFETY GLASS *See Glass*

SAFETY FLARES *See Flares, Emergency*

SAFETY FUSEES *See Fusees*

SAND BLASTERS

ALC COMPANY

SANDERS, Portable Electric

ALBERTSON & CO
Baldor Electric Co
Ballon Tire Mould Co
Big Four Industries Inc
BLACK & DECKER MFG CO
Buckeye Tools Corp
CHICAGO PNEUMATIC TOOL CO
Chicago Wheel & Mfg Co
Cincinnati Electrical Tool Co
Clarke Floor Machine Co
Cummins Portable Tools Div
Detroit Surfacing Machine Co
Dremel Mfg Co
Dumore Co
EGAN MFG CO H B
INGERSOLL-RAND CO
Jones Motorola Corp
Keel & Co
Kehawke Mfg Co
Lee Co K O
Martindale Electric Co
Millers Falls Co
Milwaukee Electric Tool Co
National-Detroit Inc
Nedco Co
Precise Products Corp
Porter-Cable Machine Co
Pratt & Whitney Co
REMINGTON ARMS CO
Reuland Electric Co
Rotor Tool Co
Scott Corp Douglas
Signal Mfg Co
Skil Corp
SNAP-ON TOOLS CORP
Speed Way Mfg Co
Stanley Electric Tools Div
STOW MFG CO
Sundstrand Machine Tool Co Pneumatic Div
Super Mold Corp
Thor Power Tool Co
U S Electrical Motors Inc
United States Electrical Tool Co
Weller Electric Co
Wen Products Inc
Wilson Inc K R

Sanders to Seat Belts

SANDERS, Portable Pneumatic

ALBERTSON & CO

ARO EQUIPMENT CORP

Buckeye Tools Corp

CHICAGO PNEUMATIC TOOL CO

Cleco Div
Cless Div
Detroit Surfacing Machine Co
Gardner-Denver Co

INGERSOLL-RAND CO

Madison-Kipp Corp
Master Pneumatic Tool Co
National-Detroit Inc
Onsrud Machine Works Inc
Rotor Tool Co
Skil Corp

SUNDSTRAND HYDRAULIC DIV

Thor Power Tool Co

WATERVLIET TOOL CO

SANDERS, Vehicle Traction

Highway Safety Appliances Div

NAPCO INDUSTRIES INC

Tenna-Lite Mfg Co

SANDPAPER & DISCS

ALBERTSON & CO

Armour Coating Abrasives Div
Bay State Abrasive Products Co
Behr-Manning Corp
Besley-Welles Corp

BLACK & DECKER MFG CO

Clover Mfg Co
Field Abrasive Mfg Co
Gardner Machine Co
Manhattan Rubber Div
Mid-West Abrasive Co

MINNESOTA MINING & MFG CO

Norton Co
Sandusky Abrasive Wheel Co
Simonds Abrasive Co
Skil Corp

SAWS, Portable Electric

ALBERTSON & CO

BLACK & DECKER MFG CO

CHICAGO PNEUMATIC TOOL CO

Cummins Portable Tools Div
Dremel Mfg Co
Forsberg Mfg Co
Kett Tool Co
Key-Hak Div
Mid-States Welder Mfg Co
Millers Falls Co
Milwaukee Electric Tool Co
Portable Electric Tools Inc
Porter-Cable Machine Co

REMINGTON ARMS CO

Skil Corp
Speed Way Mfg Co
Stackhouse E H
Stanley Electric Tools Div
Syntron Co
Thor Power Tool Co
Wen Products Inc
Wyzenbeek & Staff Inc

SAWS, Portable Pneumatic

CHICAGO PNEUMATIC TOOL CO

Key-Hak Div
Thor Power Tool Co

SCALES, Terminal

Bonded Scale & Machine Co
Buffalo Scale Co
Chatillon & Sons John
Detecto Scales Inc Div
Exact Weight Scale Co
Fairbanks Morse & Co
Howe Scale Co
Toledo Scale Div

SCALES, Vehicle

Buffalo Scale Co
Cemco Industries Inc
Chatillon & Sons John
Detecto Scales Inc Div
Dillon & Co W C
Fairbanks Morse & Co
Howe Scale Co
Toledo Scale Div

SCRAPERS, Highway

(See also Graders)

Allis Chalmers Mfg Co

EUCLID DIV

INTERNATIONAL HARVESTER CO

LeTourneau-Westinghouse Co
The Oliver Corp
Wooldridge Manufacturing Div

SCREW DRIVERS, Portable Electric

ALBERTSON & CO

BLACK & DECKER MFG CO

CHICAGO PNEUMATIC TOOL CO

INGERSOLL-RAND CO

Kent-Moore Organization Inc
Mall Tool Co
Millers Falls Co
Milwaukee Electric Tool Co

REMINGTON ARMS CO

Skil Corp
Stanley Electric Tools Div
Thor Power Tool Co
United States Electrical Tool Co

SCREW DRIVERS, Portable Pneumatic

ALBERTSON & CO

ARO EQUIPMENT CO

Buckeye Tools Corp

CHICAGO PNEUMATIC TOOL CO

Cleco Div
Dixon Automatic Tool Inc
Gardner-Denver Co

INGERSOLL-RAND CO

For addresses of manufacturers, see the new special section starting on **page 199**

Mall Tool Co
Master Pneumatic Tool Co

REMINGTON ARMS CO

Rotor Tool Co
Shakeproof Div
Skil Corp
Thor Power Tool Co
United Shoe Machinery Corp

SEALED BEAM UNITS *See Lamps, Sealed Beam*

SEALERS, RADIATOR *See Radiator Sealing Compounds*

SEALERS, BODY COMPOUNDS *See Body Sealing Compounds*

SEALING COMPOUNDS, WINDSHIELD *See Windshield Sealing Compounds*

SEALS *See Oil Seals*

SEATS, Bus

American Seating Co
American Wicker Works
Amesbury Seat Mfg Co
Brand Associates Michael
Dek Mfg Co
Flxible Co
Freedman Co Hyman
General Seating Co

GOODYEAR TIRE & RUBBER CO

Milsco Mfg Co
Molded Fiber Glass Companies
National Seating Co
Rigidized Metals Corp
Troy Sunshade Co

SEATS, Truck

American Metal Products Co
American Seating Co
American Wicker Works

BOSTROM CORP

Michael Brand Associates
Comfort Cushion Co
Freedman Co Hyman
General Seating Co

GOODYEAR TIRE & RUBBER CO

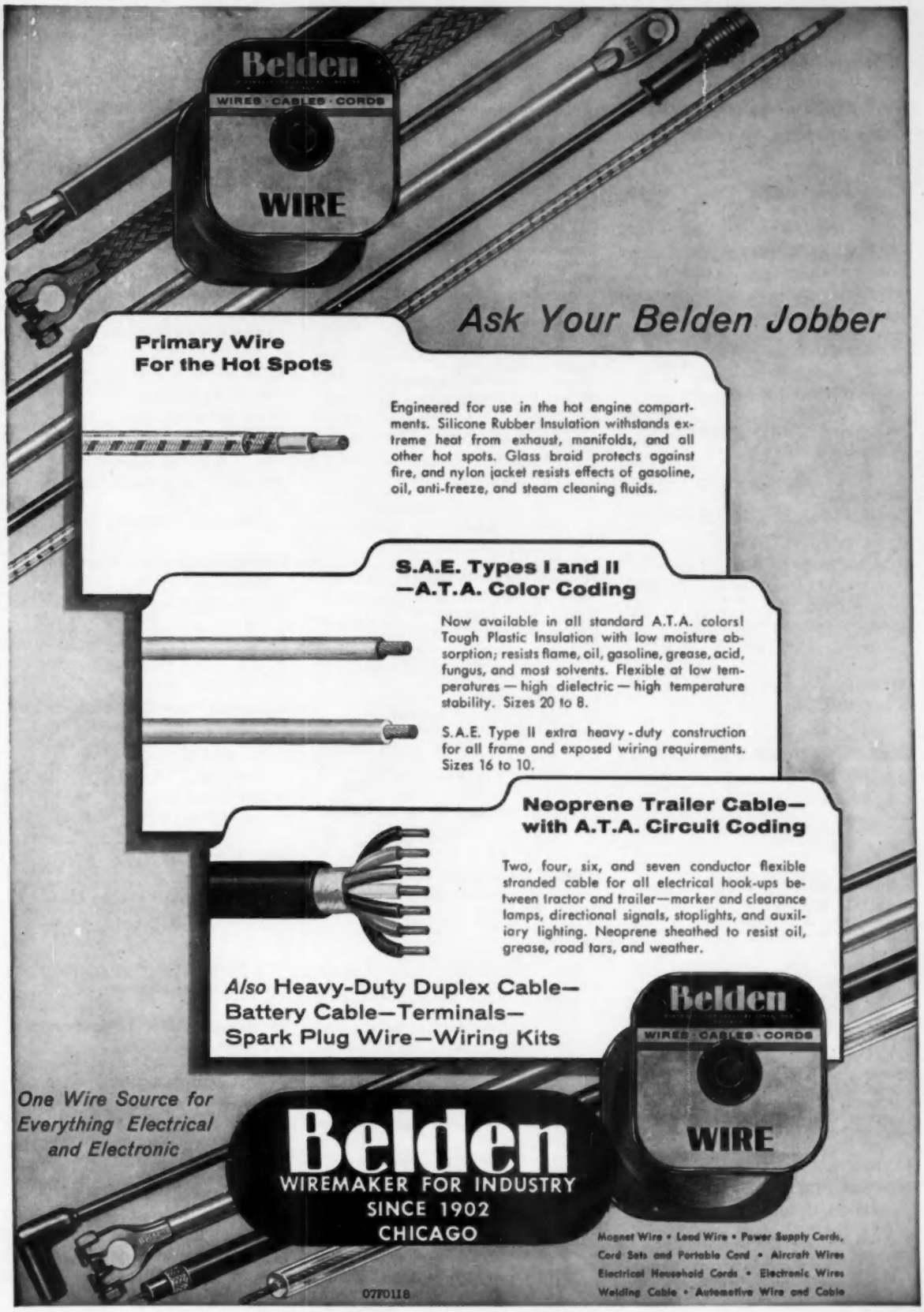
Ionia Mfg Co Div
Milsco Mfg Co
Monroe Auto Equipment Co
National Seating Co
Perma Seating Co
Troy Sunshade Co

SEAT BELTS

Aero Safety Equipment Co
Alofs Mfg Co
Auto-Craft Mfg Co Div
Bullard Co E D
Bunke-Musser Inc
Fabric Mfg Co

HASTINGS MFG CO

Hickok Mfg Co
Hinson Mfg Co
International Mfg Co
Irving Airchute Co
Modern Accessories Co
Narrow Fabric Co
Rose Mfg Co
Rupert Parachute Co
Russell Mfg Co
Schiegel Mfg Co


Belden
WIRES · CABLES · CORDS
WIRE
Ask Your Belden Jobber
Primary Wire
For the Hot Spots
Engineered for use in the hot engine compartments. Silicone Rubber Insulation withstands extreme heat from exhaust, manifolds, and all other hot spots. Glass braid protects against fire, and nylon jacket resists effects of gasoline, oil, anti-freeze, and steam cleaning fluids.
S.A.E. Types I and II
—A.T.A. Color Coding
Now available in all standard A.T.A. colors! Tough Plastic Insulation with low moisture absorption; resists flame, oil, gasoline, grease, acid, fungus, and most solvents. Flexible at low temperatures — high dielectric — high temperature stability. Sizes 20 to 8.
S.A.E. Type II extra heavy-duty construction for all frame and exposed wiring requirements. Sizes 16 to 10.
Neoprene Trailer Cable—
with A.T.A. Circuit Coding
Two, four, six, and seven conductor flexible stranded cable for all electrical hook-ups between tractor and trailer—marker and clearance lamps, directional signals, stoplights, and auxiliary lighting. Neoprene sheathed to resist oil, grease, road tars, and weather.
Also Heavy-Duty Duplex Cable—
Battery Cable—Terminals—
Spark Plug Wire—Wiring Kits
Belden
WIRES · CABLES · CORDS
WIRE
One Wire Source for
Everything Electrical
and Electronic
Belden
WIREMAKER FOR INDUSTRY
SINCE 1902
CHICAGO
Magnet Wire • Lead Wire • Power Supply Cords,
Cord Sets and Portable Cord • Aircraft Wires
Electrical Household Cords • Electronic Wires
Welding Cable • Automotive Wire and Cable
07F0118

Seat Cushions to Signs

SEAT BELTS—*continued*

Southern Weaving Co
Sparton Automotive Div
Stebco Industries Inc
Sturges Mfg Co
Switlik Parachute Co
Thomas Co R M

SEAT CUSHIONS

Armour Cushioning Products Div
BOSTROM CORP
Dunlop Tire & Rubber Corp
FIRESTONE RUBBER AND LATEX PRODUCTS CO
General Seating Co
GOODRICH CO B F SPONGE PRODS DIV
GOODYEAR TIRE & RUBBER CO
Hewitt-Robins Inc
Karpex Mfg Co
New York Rubber Corp
Perma Seating Co
UNITED STATES RUBBER CO
Young Spring & Wire Corp

SEATS, VALVE *See Valve Seats*
SHAFTING, FLEXIBLE *See Flexible Shafting*
SHAFTS, AXLE *See Axle Shafts*
SHAFTS, PROPELLER *See Propeller Shafts*
SHAFTS, TRANSMISSION *See Transmission Gears & Shafts*

SHEARS, Portable Electric

BLACK & DECKER Mfg Co
Millers Falls Co
Skil Corp
Stanley Electric Tools Div
Thor Power Tool Co

SHIMS & SHIM STOCK

Acme Mfg & Gasket Co
Allmetal Screw Products Co
Andrew Parts Mfg Co
Bender Equipment Co J H
Blaisdell Mfg Co
Champ-Items Inc
Detroit Stamping Co
FEDERAL-MOGUL SERVICE DIV
FITZGERALD MFG CO
Gasket Packing & Specialty Co
Jambor Tool & Stamping Co
Keystone Gasket Mfg Co
Kickhaefer Mfg Co
Konigslow Mfg Co
Laminated Shim Co
McCord Corp
NATIONAL SEAL DIV
PERFECT CIRCLE CORP
Precision Steel Warehousing
Rotax Mfg Co
Simonds Saw & Steel Co
Standard Supply Co
Templeton Co The
United Screw & Bolt Corp
Victor Mfg & Gasket Co
Whitehead Stamping Co
Wisconsin Gasket & Mfg Co

SHIMS, Axle Caster & Camber

Accurate Products Inc
John Bean Div
Bear Mfg Co
Bee-Line Co
Bender Equipment Co J H
Bennett-Feragen
D & O Mfg Co
Dixie-Jibo Co
Houser Engrg & Mfg Co
Hunter Engrg Co
Kwik-Ezee Inc
Loock & Co R J
Manbee Equip Div
Moog Industries Inc
Morgan Wheel & Equipment Co
Perfect Equipment Corp
Perfect Parts Inc
Powell Mfg Co
Servwell Products Co
Standard Supply Co
Turner Mfg Co
Vanco Products Inc

SHIMS, BRAKE LINING *See Brake Lining Shims*

SHOCK ABSORBERS

Blackstone Mfg Co
Briggs Shock Absorber Co
DELCO PRODUCTS DIV
Gabriel Co
Gilpak Automotive Products Div
GorDag Industries Inc
Heckethorn Mfg & Supply Co
Houdaille Industries Inc Buffalo Hydraulics Div
Monroe Auto Equipment Co
Moog Industries Inc
Thompson Products Inc
Toledo Steel Products Div

SHOCK ABSORBER FLUID *See Brake Fluid*

SHOCK ABSORBER LINKS

Accurate Products Inc
Badger Mfg Corp
Champ-Items Inc
Delco Products Div
Elgin Machine Works
Freedco Products Inc
Houdaille Industries Inc Buffalo Hydraulics Div
Moog Industries Inc
Preferred Electric & Wire Co
Trayer Products Inc
Van Burgen & Greener Inc
WOHLERT CORP

SHOES, BRAKE *See Brake Shoes*
SHUTTERS, RADIATOR *See Radiator Shutters*

SIGNALS

SIGNAL FLASHERS, DIRECTIONAL *See Directional Signal Flashers*
SIGNAL SWITCHES, DIRECTIONAL *See Directional Signal Switches*

SIGNALS, Air Filter

BACHARACH INDUSTRIAL INSTRUMENT CO

SIGNALS, Fuel Tank

Scully Signal Co

SIGNALS, DIRECTIONAL *See Directional Signals*

SIGNALS, Low Air Pressure Brake

BENDIX-WESTINGHOUSE AUTOMOTIVE AIR BRAKE CO
BERG MFG & SALES CORP
COLE-HERSEE CO
Fasco Industries Inc
Hawk Tool & Engineering Co
Monroe Standard Inc
Power Brake Equipment Co
STEWART-WARNER CORP INSTRUMENT DIV
Synchro-Start Products Inc

SIGNALS, Low Air Pressure, Tires

Tire Service Inc

SIGNALS, Low Brake Fluid

General Metal Products Corp

SIGNALS, Low Oil Pressure

COLE-HERSEE CO
Hawk Tool & Engineering Co
KYSOR HEATER CO
MOTO-GARD CO
STEWART-WARNER CORP INSTRUMENT DIV
Synchro-Start Products Inc

SIGNALS, Low Vacuum (Brake)

COLE-HERSEE CO
Monroe Standard Inc
MOTO-GARD CO
Power Brake Equipment Co

SIGNALS, Water Temperature

Armbrust Automatic Corp
Hawk Tool & Engineering Co
KYSOR HEATER CO
STEWART-WARNER CORP INSTRUMENT DIV
Synchro-Start Products Inc
Water-Larm Corp

SIGNS, Vehicle

(See also Decalcomanias)

Allied Decals
Fleetmark Div Mask-Off Co
MINNESOTA MINING & MFG CO
MULHOLLAND-HARPER CO

Snow Plows to Splash Guards

Ohio Decalcomania Co
Ward's Trucksign Transfers

SIRENS *See Horns, Sirens*

SLACK ADJUSTERS, BRAKE *See Brake Adjusters*

SLEEPER CABS *See Cabs, Truck*

SLEEVES, CYLINDER *See Cylinder Liners*

SLUDGE REMOVERS (CRANKCASE) *See Compounds, Crankcase Sludge Removing*

SLUDGE VALVES *See Valves, Air Tank Drain*

SNOW PLOWS

Arps Corp
Badger Machine Co
Bros Wm Boiler & Mfg Co
Burch Corp
Caterpillar Tractor Co
Eshelman Co Cheston L
FWD Corp
Flink Co
Frink Sno-Plows Inc
General Engine Co Inc

THE GLEDHILL ROAD MACHINERY CO

Good Roads Machinery Corp
Gravely Tractors Inc
Howell Industrial Truck Co
Maday Body & Equipt Co
Meyer Prods Inc

MONARCH ROAD MACHINERY CO

Morrison Railway Supply Corp
New England Road Machinery Co

NAPCO INDUSTRIES INC

Root Spring Scraper Co
Scheneker Iron Works Inc
Scranton Truck Body & Equipment Co
Edward F Taylor Co
Truck Engrg Co

WALTER MOTOR TRUCK CO

Wausau Iron Works
Western Snowplow Div

SOAPS, VEHICLE WASHING *See Cleaning Compounds & Solvents*

SOLDERING IRONS, Electric

American Electrical Heater Co
Dockson Corp
General Electric Co Apparatus Sales Div
Ideal Industries Inc
Kwikheat Mfg Co
Lenk Mfg Co

LINDE CO

Luma Electric Equipment Co

SNAP-ON TOOLS CORP

Stanley Tools
Turnsignal Co
Vulcan Electric Co
Wall Mfg Co
Wasserleing Mfg Co Inc
Weller Electric Corp
Wen Products Inc
Zephyr Mfg Co

SOLDERS, BODY *See Body Solders*

SOLVENTS, OIL, CARBON & GREASE *See Cleaning Compounds & Solvents*

SPACERS, WHEEL *See Wheel Spacers*

SPARK PLUGS

AC SPARK PLUG ELECTRONICS DIV

Almquist Engrg Co
American Eagle "Perma-Gap" Spark Plug Corp
Auburn Spark Plug Co
B G Corp
Blue Crown Corp

ROBERT BOSCH CORP

Bowers Battery & Spark Plug Co
Bowes "Seal Fast" Corp

CHAMPION SPARK PLUG CO

Continental Mfg Corp
Defiance Spark Plug Corp
Doering Mfg Corp A L
Doran Inc James A

ELECTRIC AUTOLITE CO

Engine Accessories Mfg Co
Gilpak Automotive Products Div
Globe-Union Inc

HASTINGS MFG CO

Leonard Spark Plug Co
Luthy Co F A
Mallory Electric Corp
Motor Master Products Corp
Trujan Products Co
Tungsten Spark Plug Mfg

SPARK PLUG CLEANERS

AC SPARK PLUG ELECTRONICS DIV

ROBERT BOSCH CORP

CHAMPION SPARK PLUG CO

ELECTRIC AUTO LITE CO

Kastar Inc

OAKITE PRODUCTS INC

Warehouse Distributing Co

SPARK PLUG TESTERS

AC SPARK PLUG ELECTRONICS DIV

Acme Electric Corp
Auto-Test Inc
B G Corp

ROBERT BOSCH CORP

CHAMPION SPARK PLUG CO

Kal-Equip Co
Kastar Inc
King Electric Equipment Co
Rinck-McIlwaine Inc
Wudel Mfg Co Edmund J

For addresses of manufacturers, see the new special section starting on **page 199**

SPEEDOMETERS

AC SPARK PLUG ELECTRONICS DIV

Apcor Sales Division

ARGO TACHOGRAPH CO (Recording)

ELECTRIC AUTO-LITE CO

Jones-Motorola Corp

KING-SEELEY CORP

STEWART-WARNER CORP INSTRUMENT DIV

United States Taximeter Co
Veeder-Root Inc
Waltham Watch Co

SPEEDOMETER CABLES

AC SPARK PLUG ELECTRONICS DIV

Alloy Mfg Co
Champ-Items Inc

ELECTRIC AUTOLITE CO

Hygrade Products Div
Kem Mfg Co
Paragon Products Corp
Parts Mfg Co
Perfection Automotive Products Corp
Speedometer Service Co

STANDARD MOTOR PRODUCTS INC

Stewart Mfg Corp F W

STEWART-WARNER CORP

Wyzenbeek & Staff Inc

SPLASH GUARDS

Ace Rubber Products Inc
Acme Rubber Mfg Co
American Mat Corp
Anchor Rubber Products Div
Bermo Industries Inc
Better Monkey Grip Co
Buckeye Rubber Products Inc
Buxbaum Co
Contour Truck Guards Inc
Dallas Mfg & Sales Co

DAYTON INDUSTRIAL PRODUCTS CO

Doan Mfg Div
Fargo Rubber Corp
Franklin Industries

FRUEHAUF TRAILER CO

Gar Wood Industries

GATES RUBBER CO

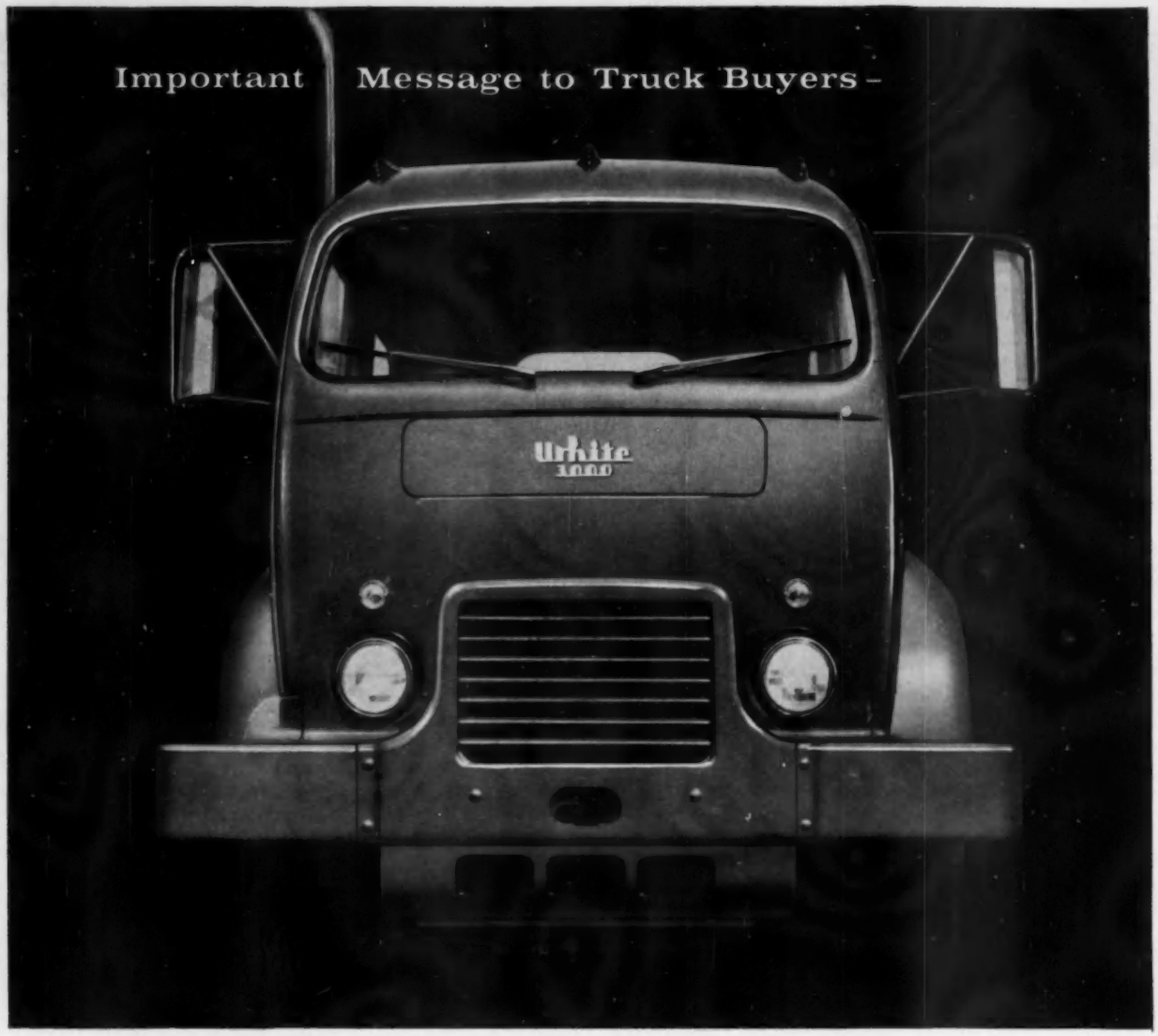
Globe Rubber Products Co
Gross Mfg Co
Haywood Industries
Holan Corp

LEE RUBBER & TIRE CORP

MIDWEST GENERAL CORP

Moore Co D W
Randall Co
Regal Motor Products Inc
Signal Mfg Co
Templeton Co The
Tingley Rubber Corp

SPOTLIGHTS *See Lamp, Fog & Spot*



What is the big difference

Although these two White 3000's look alike . . . they are vitally different! Each one of these trucks has been engineered, from the ground up, to meet the specific needs of a different owner.

As a matter of fact, his company name went right with his truck through every inch of the production line . . . from the first laying of the chassis rails to the last coat of shining paint.

Now it's *his* built-to-order WHITE, designed to fit *his* job. Why settle for anything less?

Invite us to study *your* needs. Then after you choose the WHITE 3000 gasoline or diesel power plant you want, we will *custom-engineer* all other components (axles, transmission, frame, steering gear) to your exact power and weight requirements.

You'll find the WHITE concept of *custom-engineering* one of the big reasons why WHITE trucks give you a *competitive edge* in your business.

THE WHITE MOTOR COMPANY, CLEVELAND 1, OHIO

Branches, distributors, dealers in all principal cities

between these two trucks?

White gives you a competitive edge because . . .

■ Your WHITE is meticulously custom-engineered to the exact needs of your hauling job.

■ WHITE's advanced design and progressive innovations give you the biggest payoff in both payload and performance.

■ Your WHITE is a protected investment, built for long life —with no artificial obsolescence.

■ WHITE's insistence on quality and craftsmanship pays off in low maintenance and operating costs, year in and year out.

■ Your WHITE is backed by a nationwide network of super-service facilities—*specializing* in heavy-duty trucks.

WORLD LEADER IN HEAVY DUTY TRUCKS

WHITE

Spring Clips to Starting Motors

SPRAY BOOTHS, PAINT *See Paint Spray Booths*

SPRAY, IGNITION *See Ignition Spray*

SPRAYERS, MOLTEN METAL *See Metalizing Equipment*

SPRAYERS, PAINT *See Paint Sprayers*

SPRAYERS, UNDERCOATING *See Undercoating Sprayers*

SPREADERS, TIRE *See Tire Service Equipment*

SPRING CLIPS

BORG-WARNER CORP SPRING DIV
Brown Corp
Champ-Items Inc
Cuyahoga Spring Co
Davis Auto Equipment Co
Handy Button Machine Co
Highland Machine Co
Houser Engrg & Mfg Co
Prestole Corp
Queen City Forging Co
Service Spring Co
Triangle Auto Spring Corp
Wells Mfg Corp

SPRINGS, Air

Air Lift Co
FIRESTONE INDUSTRIAL PRODUCTS CO
GENERAL TIRE & RUBBER CO AIR SPRING DIV
Republic Mfg Co
WAGNER ELECTRIC CORP (Leveling Valve)
WESTERN UNIT CORP
Youngstown Steel Car Corp

SPRINGS, Coil

EATON MFG CO SPRING DIV
McQUAY-NORRIS MFG CO
Moog Industries Inc
THOMPSON PRODUCTS REPLACEMENT DIV

SPRINGS, Helper

Automotive Aids Corp
Bee-Line Co
Champ-Items Inc
Davis Auto Equipment Co
Koenig Iron Works
LAHER SPRING & TIRE CORP
Maremont Automotive Products Inc
Moog Industries Inc
Pickwick Co
PRIOR PRODUCTS CO
Service Spring Co
Standard Supply Co
St Louis Spring Co Div Templeton Co The
Thompson Products Replacement Div
Trainor National Spring Co
Tuthill Spring Co
Vulcan Spring Co

SPRINGS, Leaf

Benz Spring Co
Betts Spring Co
Burton Auto Spring Corp
Champ Spring Co
Cincinnati Auto Spring Co
Detroit Steel Products Div
Eaton Mfg Co Spring Div
Iron City Spring Co
Koenig Iron Works Inc
LAHER SPRING & TIRE CORP
Liggett Spring & Axle Co
Mather Spring Co
Moog Industries Inc
Republic Engrg & Mfg Co
Rheem Automotive Co
ROCKWELL-STANDARD CORP
Service Spring Co
Spring Perch Co
Swartz Products Inc
Templeton Co Inc
Trainor National Spring Co
Triangle Auto Spring Corp
Tuthill Spring Co
Vail Spring Works Inc
Vulcan Spring Co

STANDS, ELECTRIC TEST *See Testers, Electrical*

STANDS, Engine, Transmission & Axle

BACHARACH INDUSTRIAL INSTRUMENT CO
Clayborne Mfg Co
Evans Reamer & Machine Co
GLOBE HOIST CO
HEIN-WERNER CORP
K-D MFG CO
KEN-TOOL MFG CO
Manley Div
Manzel Div
Miller Mfg Co
Montague Equipment Co
Storm-Vulcan Inc
Wilson Inc K R
Worthington Pump & Mchry Corp

STANDS, Vehicle

Ajax Auto Parts Co
AUTO SPECIALTIES MFG CO
Cochin Mfg Co
Edgewater Automotive Div
Evans Reamer & Machine Co
HEIN-WARNER CORP
Joyce-Cridland Co
Kent-Moore Organization Inc
Manley Div
R V Jack Corp
Reliable Jack Div
Toledo Pressed Steel Co

For addresses of manufacturers, see the new special section starting on **page 199**

Unit Mfg Co
Wagner Mfg Co
Walker Mfg Co of Wis
WEAVER MFG CO
Wilson Inc K R

STANDS, Portable (Tools & Parts)

Angle Steel Inc
BACHARACH INDUSTRIAL INSTRUMENT CO
Barrett-Cravens Co
Ray Products Div of American Metal Works Inc
Bernard-Franklin Co
Bernard Gloeker N East Co
BLACK & DECKER MFG CO
Buck Mfg Co
Colson Corp
Cutler Metal Products Co
Economy Engrg Co
Equipto Div Aurora Equipment Co
Frick-Gallagher Mfg Co
Gross Mfg Co
HEIN-WERNER CORP
Herman Co Karl A
Huot Mfg Co
Kennedy Mfg Co
Lyon Metal Products Inc
Nutting Truck & Caster Co
Overbeke-Kain Co
Owatonna Tool Co
Sheet Metal Specialty Div of Follansbee Steel Corp
Shure Mfg Co
Standard Pressed Steel Co
Sturdi-Bilt Steel Products Inc
Wilson Inc K R

STARTER SWITCHES *See Switches, Starter*

STARTING FLUID PRIMERS *See Primers, Engine*

STARTING MOTORS, Air

BENDIX-WESTINGHOUSE AUTOMOTIVE AIR BRAKE CO
GMC TRUCK & COACH DIV
Gardner-Denver Co
INGERSOLL RAND CO
LEECE-NEVILLE CO

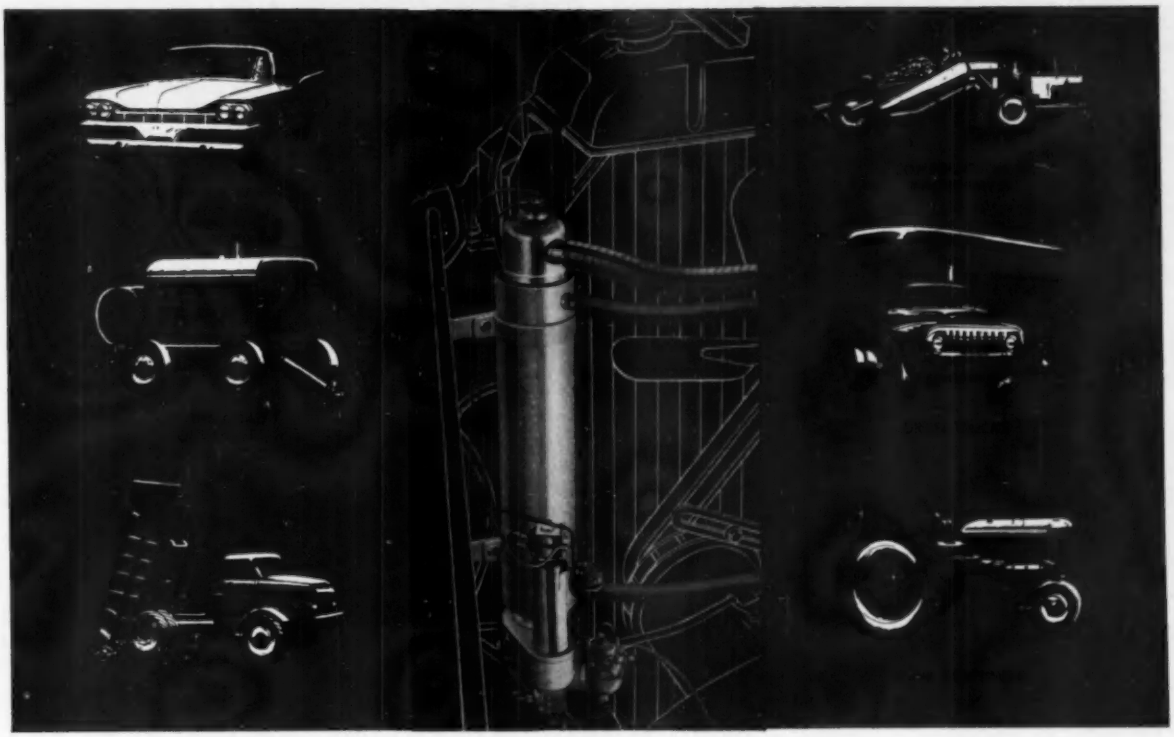
STARTING MOTORS, Electric

American Generator & Armature Co
Arrow Armatures Co
DELCO-REMY DIV
ELECTRIC AUTOLITE CO
General Armature & Mfg Co
LEECE-NEVILLE CO
Midwest Generator Co

STARTING MOTORS, Hydraulic

American Bosch Div
DETROIT DIESEL ENGINE DIV

Announcing—
THERMO-TEMP
ENGINE HEATER



Automatically keeps ALL liquid cooled engines warm for "summer" starting—operates on vehicle's own fuel.

- Reduces battery run-down, stalling, downtime, and maintenance costs.
- Saves fuel.
- Assures "summer" starting in cold temperatures and furnishes immediate cab heat and defrosting.
- Eliminates cold engine wear and the necessity for engine idling.

WHAT IT DOES—The new Thermo-Temp Engine Heater automatically maintains the operating temperature of the coolant in gasoline, diesel and propane engines *even when the engines are not running.*

HOW IT WORKS—The Thermo-Temp Heater becomes an integral part of the cooling system. When the engine temperature drops to a predetermined point, a thermostat automatically starts the heater. The unit then draws coolant from the engine block, passes it through the heat exchanger, operated by the engine's own fuel, and returns it to the block. When the engine has reached operating temperature, the Thermo-Temp automatically shuts off. This cycle is repeated whenever the engine temperature drops to the predetermined point.

Copyright 1959 Thermo-Temp Industries, Inc.

DEPENDABLE AND SAFE—Three years of intensive engineering and performance testing have resulted in the development of this basically simple unit. It is thoroughly dependable and safe and easy to install. The Thermo-Temp assures warm engine starts on the coldest mornings. There is no more wasted money and time waiting for a cold engine to start and warm up. Get full details today.

Thermo-Temp Industries, Inc.
IBM BLDG. • 7702 SECOND BLVD. • DETROIT 2, MICH.

SEND THIS COUPON FOR FULL INFORMATION

Thermo-Temp Industries, Inc.
7702 Second Blvd.,
Detroit 2, Mich.

Send complete details on the money-saving Thermo-Temp Engine Heater.

NAME _____

COMPANY _____

ADDRESS _____

CITY _____ STATE _____

Starting Motor Drives to Switches

STARTING MOTOR DRIVES & PARTS

American Motor Products Co
Carston Mfg Co
ECLIPSE MACHINE DIV
ELECTRIC AUTOLITE CO
F & B MFG CO
Guaranteed Parts Co
HOLLEY CARBURETOR CO
International Products & Mfg Co
Kem Mfg Co
Keystone Carbon Co
LAMSON & SESSIONS CO
Machined Parts Corp
Midwest Generator Co
Niehoff & Co C E
Paragon Products Corp
Preferred Electric & Wire Co
Shurhit Products Inc
United Screw & Bolt Corp
Valley Forge Products Inc
Van Bergen & Greener Inc
Wells Mfg Corp
Wickwire Spencer Steel Div

STEAM CLEANERS *See Cleaning Machines*

STEEL DOORS, TRUCK *See Doors, Truck, Steel*

STEEL

Acme-Newport Steel Co
American Nickeloid Co
Apollo Metal Works Inc
ARMCO STEEL CORP
Bethlehem Steel Co
Caine Steel Co
Coatesville Plate Washer Co
Crucible Steel Co of America
Detroit Steel Corp
Eastern Stainless Steel Corp
Great Lakes Steel Corp
Hamden Steel & Aluminum Co
Hynes Steel Products Co
Ingersoll Steel Div
Inland Steel Co
Jones & Laughlin Steel Corp
Kaiser Steel Corp
Pittsburgh Steel Co
REPUBLIC STEEL CORP
Ryerson & Son Inc Joseph T
Sharon Steel Corp
Superior Sheet Steel Co
Superior Steel Corp
TENNESSEE COAL & IRON DIV
UNITED STATES STEEL CORP
Universal-Cyclops Steel Corp
Washington Steel Corp
Weirton Steel Co Div
Wheeling Steel Corp
ALAN WOOD STEEL CO
Youngstown Sheet & Tube Co

STEERING GEARS

Gemmer Mfg Co Div
Saginaw Steering Gear Div

STEERING GEAR POWER SYSTEMS

Air-O-Matic Power Steer Corp
BENDIX PRODUCTS DIV
Garrison Mfg Co
Ross Gear & Tool Co Inc
Saginaw Steering Gear Div
Sheppard Co R H
VICKERS INC

STENCILS (For Lettering)

Dicks Co C O

STEP PLATES

Croname Inc
Duffy Mfg Co
Hamlin Metal Products Co
Jones & Laughlin Steel Corp
Moore & Co Samuel
Ohio Rubber Co
Proto Tool Co
Standard Products Co
ALAN WOOD STEEL CO

STEPS, Truck Body

Bustin Steel Products Inc
Medley Mfg Co
Mesco Products
Miller Mfg Co
Power Brake Parts Mfg Co
Turk Corp C K

STOCK RACKS, *See Racks, Stock Storage*

STOP LAMPS *See Lamps*

STOP LIGHT SWITCHES *See Switches, Stop Light*

STORAGE BATTERIES *See Batteries, Storage*

STORAGE BINS *See Bins, Parts Storage*

STRIAGHTENERS, AXLE & FRAME *See Alignment Equipment*

STRAIGHTENERS, WHEEL *See Wheel Straighteners*

STRIPPERS, PAINT *See Paint Removers*

SUSPENSION UNITS *See Axle Suspension Units*

SWEEPERS *See Floor Sweepers or Road Sweepers*

SWITCHES

SWITCHES, DIRECTIONAL SIGNAL *See Directional Signal Switches*

SWITCHES, Headlight Dimmer

Carter Parts Co
Clum Mfg Co

For addresses of manufacturers, see the new special section starting on **page 199**

COLE-HERSEE CO
DELCO-REMY DIV
ECHLIN MFG CO
F & B MFG CO
Freedco Products Inc
General Automotive Specialty Co
Guaranteed Parts Co Inc
GUIDE LAMP DIV
HOLLEY CARBURETOR CO
IDEAL CORP
Illinois Accessories Co
K-D LAMP CO
Kem Mfg Co
M D Parts Mfg Co
Machined Parts Corp
National Ignition Mfg Co
Niehoff & Co C E
P & D MFG CO
Pollak Corp Joseph
Preferred Electric & Wire Co
R-B-M Div Essex Wire Corp
Sorenson Mfg Co
STANDARD MOTOR PRODUCTS INC
Switches Inc
Tasco Products Div
Valley Forge Products Inc
Wheel Parts & Mfg Co

SWITCHES, Heater

Ark-Les Switch Corp
Carter Parts Co
Clum Mfg Co
COLE-HERSEE CO
Culver-Stearns Mfg Co
Cutler-Hammer Inc
Everhot Products Co
General Automotive Specialty Co
Guaranteed Parts Co Inc
IDEAL CORP
K-D LAMP CO
Kem Mfg Co
Niehoff & Co C E
Paragon Products Corp
Pollak Corp Joseph
Preferred Electric & Wire Co
STANDARD MOTOR PRODUCTS INC
Tasco Products Div
Valley Forge Products Inc

SWITCHES, Ignition

Andrew Parts Mfg Co
Briggs & Stratton Corp
Carter Parts Co
Chicago Lock Co
Clum Mfg Co
COLE-HERSEE CO
DSM Electric Co
DELCO-REMY DIV
Detroit Master Products Co
Do-Ray Lamp Co Inc
Douglas Mfg Div
Eagle Lock & Screw Co

"Take a tip from me before you order your new trucks"

"THOMPSON POSITIVE VALVE ROTATORS WILL CUT YOUR TON-MILE COSTS!"

"You can specify positive rotators installed in engines at the factory when ordering your new trucks.

"And you can put them on your present rigs, too, at the next scheduled engine overhaul."

These inexpensive exhaust valve rotators pay for themselves in short order! Here's why:

- Exhaust valve life is increased up to 8 times!
- Valve overhauls and unscheduled repairs are substantially reduced.
- Burned or stuck valves are practically eliminated.
- Engine compression and fuel economy stay at tune-up peak far longer.
- Valve stem and guide wear is reduced.

The sum-total is lower ton-mile costs. Only a *positive* valve rotator will do it . . . only Thompson makes them! MAKE SURE YOUR NEXT TRUCK ORDER SPECIFIES THOMPSON POSITIVE VALVE ROTATORS!

THOMPSON PRODUCTS

Valve Division ***Thompson Ramo Wooldridge Inc.***

1455 EAST 185th STREET • CLEVELAND 10, OHIO

Switches to Tachometers

SWITCHES, IGNITION—*contd.*

ECHLIN MFG CO

ELECTRIC AUTOLITE CO

F & B MFG CO

Freedco Products Inc
General Automotive Specialty Co
Guaranteed Parts Co Inc
Hurd Lock & Mfg Co

IDEAL CORP

Independent Lock Co
Machined Parts Corp
Mitchell Specialty Div
Motive Equipment Mfrs Inc
Murphy Mfg Inc Frank W
Pollak Corp Joseph
Preferred Electric & Wire Co
R-B-M Div Essex Wire Corp
Scintilla Magneto Div
Sorensen Mfg Co

STANDARD MOTOR PRODUCTS INC

Switches Inc
Synchro-Start Products Inc
Tasco Products Div
Valley Forge Products Inc
Wheel Parts & Mfg Co

SWITCHES, Ignition Cut-Off

Almquist Engrg Co

COLE-HERSEE CO

Durakool Inc

ECHLIN MFG CO

ELECTRIC AUTOLITE CO

Guaranteed Parts Co Inc
Monroe Standard Inc
Reynolds Electric Co
Rochester Mfg Co

STANDARD MOTOR PRODUCTS INC

Synchro-Start Products Inc

SWITCHES, Light

Ark-Les Switch Corp

ARROW SAFETY DEVICE CO

Carter Parts Co
Clum Mfg Co

COLE-HERSEE CO

Connecticut Telephone & Electric Corp
Controls Corp of America Appliance & Automotive Div
Culver-Stearns Mfg Co
Cutler-Hammer Inc

DELCO-REMY DIV

Delta Electric Co
Do-Ray Lamp Co Inc
Douglas Mfg Div

ELECTRIC AUTOLITE CO

F & B MFG CO

Fasco Industries Inc
General Automotive Specialty Co
Griffin Lamp Co
Guaranteed Parts Co Inc

IDEAL CORP

K-D LAMP CO

Mitchell Specialty Div
National Ignition Mfg Co
Niehoff & Co C E
Paragon Products Corp
Pollak Corp Joseph
Preferred Electric & Wire Co
R-B-M Div Essex Wire Corp
Regal Motor Products Inc
Rhodes Inc M H

STANDARD MOTOR PRODUCTS INC

Tasco Products Div
Wade Electric Products Co
Wheel Parts & Mfg Co

SWITCHES, Starter

American Motor Products Co
Automotive Specialty Corp
Auto-Test Inc
Carter Parts Co
Clum Mfg Co

COLE-HERSEE CO

DELCO-REMY DIV

ECHLIN MFG CO

ELECTRIC AUTOLITE CO

F & B MFG CO

Fox Valley Instrument Co
Freedco Products Inc
General Automotive Specialty Co
Guaranteed Parts Co Inc
Hanson Co Harvey E

HOLLEY CARBURETOR CO

IDEAL CORP

Illinois Accessories Co
Kem Mfg Co
King Electric Equipment Co

LEECE-NEVILLE CO

M D Parts Mfg Co
Machined Parts Corp
National Ignition Mfg Co
Niehoff & Co C E

P & D MFG CO

Paragon Products Corp
Pollak Corp Joseph
Preferred Electric & Wire Co
R-B-M Div Essex Wire Corp
Shurhit Products Inc
Sorensen Mfg Co

STANDARD MOTOR PRODUCTS INC

Switches Inc
Tasco Products Div
Valley Forge Products Inc
Wells Mfg Corp
Wheel Parts & Mfg Co

SWITCHES, Stop Light

American Motor Products Co
Ark-Les Switch Corp

BENDIX-WESTINGHOUSE AUTOMOTIVE AIR BRAKE CO

For addresses of manufacturers, see the new special section starting on **page 199**

BERG MFG & SALES CO

Carter Parts Co
Clum Mfg Co

COLE-HERSEE CO

DELCO-REMY DIV

Delta Electric Co
Do-Ray Lamp Co Inc
Douglas Mfg Div

ECHLIN MFG CO

ELECTRIC AUTOLITE CO

Fasco Industries Inc
Guaranteed Parts Co Inc

IDEAL CORP

K-D LAMP CO

Kelsey-Hayes Wheel Co
Kem Mfg Co
Loock & Co R J
Machined Parts Corp
Master Parts Div
Midland-Ross Corp Owosso Div
Motive Equipment Mfrs Inc
Murray Corp
National Ignition Mfg Co

P & D MFG CO

Perfect Parts Inc
Pollak Corp Joseph
Preferred Electric & Wire Co
R-B-M Div Essex Wire Corp
Robinson Engineering & Sales Co
Sealco Air Brakes Inc
Sorenson Mfg Co P

STANDARD MOTOR PRODUCTS INC

Tasco Products Div

THERMOID DIV

TRANSIT PARTS CO

Valley Forge Products Inc

WAGNER ELECTRIC CORP

Wells Mfg Corp
Wheel Parts & Mfg Co

YANKEE METAL PRODUCTS CORP

TACHOGRAPHS

ARGO TACHOGRAPH DIV

ENGLER INSTRUMENT CO

Sangamo Electric Co

SERVICE RECORDER CO

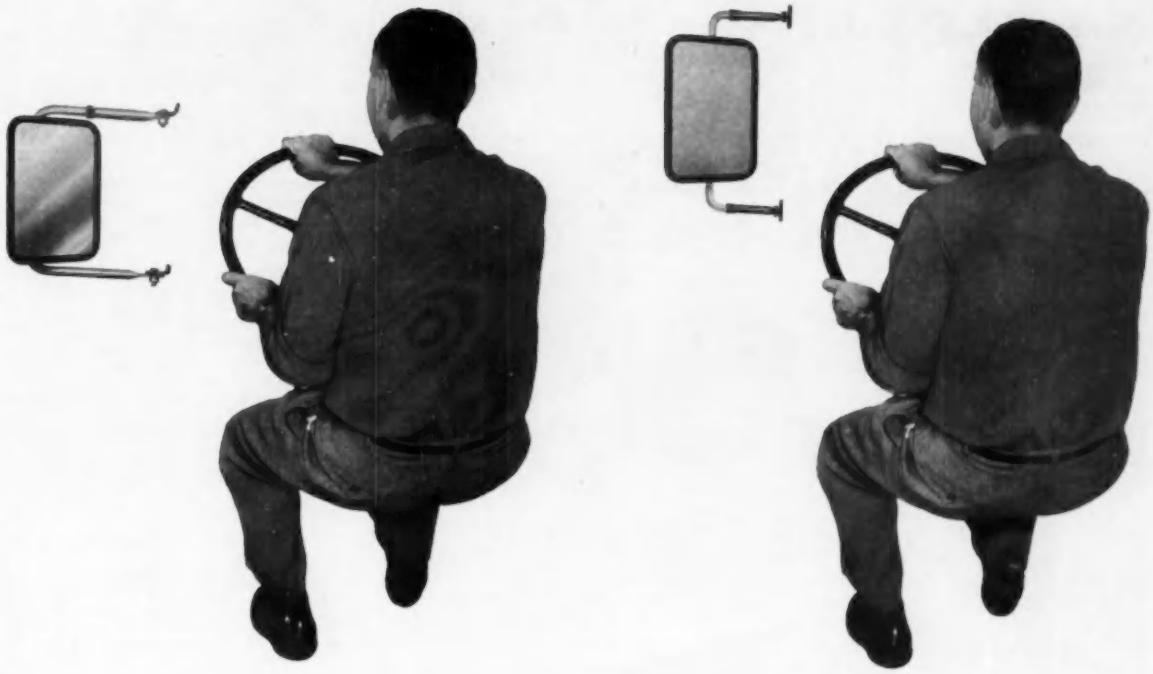
United States Taximeter Co

WAGNER ELECTRIC CORP

TACHOMETERS, Engine Testing

ACTUATOR PRODUCTS CORP

Allen Electric & Equipment Co
Auto-Test Inc
Barbour Stockwell Instruments
Electro Products Co
Fox Valley Instrument Co
Hanson Co Harvey E
Herbrand Div
Kal-Equip Co
Kennedy Service Tools Co
King Electric Equipment Co



WHICH IS THE "FRONT-VIEW" MIRROR?

"Don't talk to me about Junior West Coast mirrors," protested the owner of a large fleet of pick-ups and panels. "Why it's like putting horse-blinders on my drivers. The mirror blocks their view—especially when making a left turn."

We persuaded him to try one NEW Arrow Junior West Coast mirror—*and he ordered 50 pairs on the spot!* Why? Because it's the FRONT-VIEW mirror . . . on the left above. Note how it mounts out of the driver's forward line of vision leaving an unobstructed front view.

Your Arrow jobber has the details, or

For complete specifications, write to: **ARROW SAFETY DEVICE CO.**
GEORGETOWN, DEL.

ARROW

DESIGNS WITH THE FLEET IN MIND

Tachometers to Tanks

TACHOMETERS—*continued*

Motoraide Corp
Niehoff & Co C E

SNAP-ON TOOLS CORP

Weidenhoff Corp

TACHOMETERS, Vehicle

AC SPARK PLUG ELECTRONICS DIV

ACTUATOR PRODUCTS CORP

Almquist Engrg Co
Amthor Testing Instrument Co
Barbour-Stockwell Co
Biddle Co James G
Bristol Co

ELECTRIC AUTOLITE CO

Electro-Mecano Co
Esterline-Angus Co
Thomas G Faria Co
Fox Valley Instrument Co
Ideal Industries Inc
Jones-Motrola Corp
Kennedy Service Tools Co
King Electric Equipment Co

KING-SEALY CORP

Martindale Electric Co
Metron Instrument Co
Minneapolis-Honeywell Regulator Co Industrial Div
Photocon Research Laboratories

RADSON ENGINEERING CORP

STEWART-WARNER CORP INSTRUMENT DIV

Sticht Co Herman H
Sun Electric Corp
Veeder-Root Inc
Waltham Precision Instrument Co
Zernickow Co O

TAIL LAMPS (OR REAR SIGNAL) *See Lamps*

TAIL PIPES *See Exhaust & Tail Pipes*

TAILGATES, Elevating

Anthony Co
Cemco Industries Inc

COLLINS & ASSOCIATES INC

Cook Bros Equipment Co
Converto Mfg Co
Curtis Automotive Devices Inc
Daybrook Hydraulic Div
Galion Allsteel Body Co
Gar Wood Industries Inc
Heil Co
Hercules Steel Products Co
Maday Body & Equip Co
Marion Metal Products Co
Midwest Body & Mfg Div
Minneapolis Freeman Mfg Co
Revolvator Co
Stratton Equipment Co

TEC DIV—HEIL CO

Ven Corp

WATSON CO H S

TAKE-OFFS, POWER *See Power Take-Offs*

TANDEM BELT DRIVE *See Axle Belt Drive Adaptors*

TANKS, PARTS, CLEANING *See Cleaning Tanks*

TANK CAPS, LOCKING *See Caps, Fuel Tank Locking*

TANKS, Fuel & Oil Storage

FIRESTONE TIRE AND RUBBER CO (collapsible rubber coated)

GOODYEAR TIRE & RUBBER CO

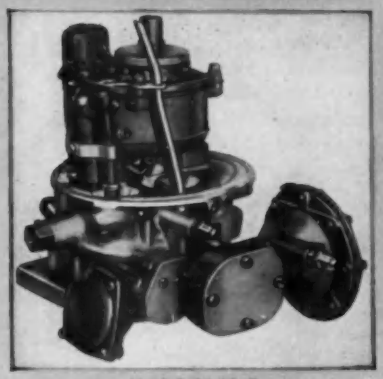
Molded Fiber Glass Companies

For addresses of manufacturers, see the new special section starting on **page 199**

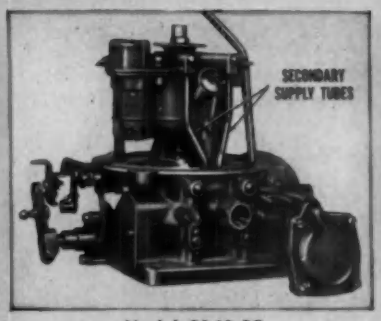
HOLLEY Carburetor Co.

NEWS for Fleet Operators

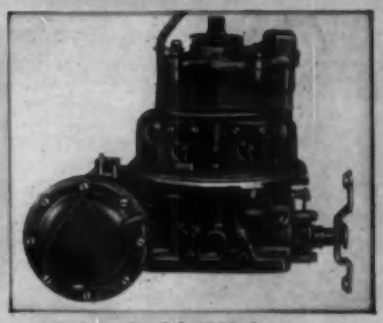
HOLLEY CARBURETOR COMPANY • WARREN • MICHIGAN



Model 2140-G



Model 2140-SG



Model 4000-G

Watch Those Throttle Plates During Carburetor Repair

Too often, during carburetor service, short cut methods of handling the disassembling and assembling of throttle plates result in an excessive idle air flow or sticking plates. Proper throttle plate installation will pay off in finer carburetor performance. In the case of the Holley Models 2140-G, 2140-SG and 4000-G, correct throttle plate installation can be performed quickly and easily by following the steps below.

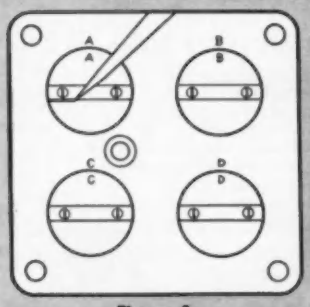


Figure 1

Figure 1—Proper handling begins during disassembling. Since throttle plates tend to wear to fit the throttle bore, it is important that a number or letter be scribed on the outside of each throttle plate and a corresponding figure on the outside of the throttle body. In addition, a light line scribed along the side of the throttle shaft will speed alignment during reassembly.

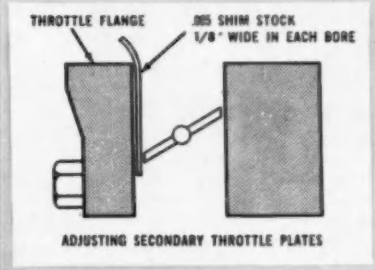


Figure 2

Figure 2—During assembly, before tightening the screws, install a piece of .005 shim stock, one-eighth inch wide in the outside of each secondary bore. Tap throttle plates gently to align and then tighten screws. The installation of the shim stock provides the ideal clearance to compensate for the air pressure exerted on the offset plates during operation; particularly at idle or deceleration.

Installation of the throttle plates by any other method may result in excessive idle air flow or sticking plates. During overhaul, the primary and secondary shafts should be checked for excessive wear. Maximum tolerance for looseness or total movement is .007 on the primary side and .0055 on the secondary side. If there is any question regarding the shaft clearance, an accurate check can be made by mounting a dial gage to indicate the movement of the shaft at the outboard side of the throttle bore.

Secondary Jet Tube Seal Replacement

On Holley Carburetor Models 2140-SG and 4000-G, the tubes that supply fuel to the secondary nozzles are sealed by synthetic "O" rings at both ends. These rings are much like the "O" rings used in sealing high pressure hydraulic systems.

For all around top performance of the carburetor, these rings should be replaced during overhaul. They are held in place by a flat metal washer that is staked in place and which also must be replaced. You can do this with the Kent-Moore 10-195 Staking Tool Set, which includes cutters to remove the metal from the old stake, as well as a staking tool to restake the "O" ring retaining washer. These tool sets are available through all Holley Distributors.

Staking Tool Set

HOLLEY CARBURETOR CO. 11955 E. Nine Mile Road • Warren, Michigan
FOR MORE THAN HALF-A-CENTURY—ORIGINAL EQUIPMENT MANUFACTURERS FOR THE AUTOMOTIVE INDUSTRY

Tanks to Testers

TANKS, Fuel Supply (Vehicle Mounted)

American Safety Tank Co
Anderson Co O L
APEX REINFORCED PLASTICS
Chilton Metal Products Inc
Cutler Metal Products Co
Fontaine Truck Equipment Co
GOODYEAR TIRE & RUBBER CO
Kirk & Blum Mfg Co
M D Parts Mfg Co
Maday Body & Equip Co
Master Tank & Welding
Michigan Fleet Equipment Co
Mitchell Metal Products Inc
PRIOR PRODUCTS INC
SNYDER TANK CORP
Stolper Steel Products Corp
Western Metal Specialty Div

TANK GAGES, Liquid Level

Boston Auto Gage Co
ELECTRIC AUTO-LITE CO
Rochester Mfg Co
STEWART-WARNER CORP INSTRUMENT DIV

TANKS, TIRE & TUBE TESTING *See Tire Testing Tanks*

TANKS, Trailer & Truck Body

American Body & Equipment Co
American Steel Works
Andrews Industries Inc
Auto Truck Steel Body Co
Beall Pipe & Tank Corp
Boston Steel & Mfg Co
Butler Mfg Co
Champion Sheet Metal Co
Columbian Steel Tank Co
Cutler Metal Products Co
Eaton Metal Products Corp
Farrell Mfg Co
FRUEHAUF TRAILER CO
Gary Steel Products Corp
Heil Co
Hews Body Co
HIGHWAY TRAILER CO
Holan Corp
Industrial Steel Tank & Body Works Inc
Kaustine Furnace & Tank Corp
Kennedy Tank & Mfg Co
Lang Co
Maday Body & Equip Co
Master Tank & Welding
Morrison Bros Co
Niles Steel Tank Co
Pacific Coast Engr Co
Pennsylvania Furnace & Iron Co
PORTERSVILLE STAINLESS EQUIPMENT CORP
Press' Sons Inc Jacob
Progress Mfg Co Oil Equipment Div
Providence Body Co
Quaker City Iron Works
Rock Hill Body Co
Sharpsville Steel Fabricators Inc
Stainless Steel Products Co
Standard Steel Works Inc
Stoughton Cab & Body Co
Superior Metal Products Inc
TEC DIV—HEIL CO
Truck Welding & Equipment Co
Wentworth & Irwin Inc
Wichita Body & Equipment Co
Wilco Inc
Wright Co Thomas

TAPE, MASKING *See Masking Tape*

TAPPETS, VALVE *See Valve Tappets*

TARPAULINS

Aero Canvas Products
Ameratron Inc Div
Acme Backing Corp
Bemis Bro Bag Co
Clifton Mfg Co
Corbett Mfg Co
du Pont de Nemours & Co E I Fabric Div
East Akron Tarpaulin Co
Haartz-Mason Inc
Hoosier Tarpaulin & Canvas Goods Co Inc
Mt Vernon-Woodburry Mills Inc
Pittsburgh Steel Products Co
W A Plummer Mfg Co
REEVES BROTHERS INC
Turk Corp C K
Turner Equipment Co
Turner Halsey Co
U S RUBBER CO
VULCAN RUBBER PRODUCTS DIV
Webb Mfg Co
Wellington Sears Co (fabric only)

TARPAULIN TIE-DOWNS

American Forge & Mfg Co
Cooper Tire and Rubber Co Industrial Rubber Div
East Akron Tarpaulin & Awning Co
Hoosier Tarpaulin & Canvas Goods Co Inc
Rubberhide Co Inc

TARPAULIN, Ratchet (For Tightening Rope)

East Akron Tarpaulin & Awning Co

TELL-TALE LAMPS *See Lamps, Tell-Tale*

TEMPERATURE, WATER GAGE *See Water Temperature Gage*

TERMINALS, WIRE *See Wire Terminals*

TESTERS, BATTERY *See Battery Testers*

TESTERS, BEARING WEAR *See Bearing Wear Testers*

TESTERS, BRAKE *See Brake Testing Machines*

For addresses of manufacturers, see the new special section starting on **page 199**

TESTERS, COOLING SYSTEM LEAK *See Radiator Leak Detectors*

TESTERS, CRACK & FLAW *See Crack & Flaw Detectors*

TESTERS, IGNITION CONDENSER *See Ignition Condenser Testers*

TESTER, IGNITION DISTRIBUTOR *See Ignition Distributor Testers*

TESTERS, DIESEL EQUIPMENT *See Diesel Equipment Testers*

TESTERS, DRIVER *See Driver Testing Equipment*

TESTERS, ENGINE *See Analyzers or Oscilloscopes*

TESTERS, Electrical

Allen Electric & Equipment Co
Arrow Armatures Co
Berg-Gibson Mfg Co
Bristol Co
Crumbliss Mfg Co
Electro Products Co
Fox Valley Instrument Co
General Electric Co Apparatus Sales Div
Graham Research Inc
Hanson Co Harvey E
Heyer Industries Inc
Hoyt Electrical Instrument Works Inc
Ideal Industries Inc
International Products & Mfg Co
Kennedy Service Tools Co
King Electric Equipment Co
Machined Parts Corp
Martindale Electric Co
Mercury Electric Corp
Motoraide Corp
Nankervis Co George L
Nemco-Speedex Mfg Co
Newman Machine Co
Niehoff & Co C E
Shurhit Products Inc
Simpson Electric Co
T & H Mfg Co
Triple-A-Specialty Co
Turnsignal Corp
Weidenhoff Corp
Wells Mfg Co
WESTINGHOUSE ELECTRIC CORP
WILLARD STORAGE BATTERY DIV
Wilson Inc K R
Wood Co Frank N

TESTERS, Fuel Mileage

Almquist Engrg Co
Bennett-Feragen
Electro Products Co
Gauthier, Donat A
Kent-Moore Organization Inc
King Electric Equipment Co
Manzel Unit
Snow-Craggs Corp
Speedometer Service Co

TESTERS, FUEL PUMP *See Fuel Pump Testers*

TESTERS, Headlight

John Bean Div
Bear Mfg Co
Heyer Industries Inc

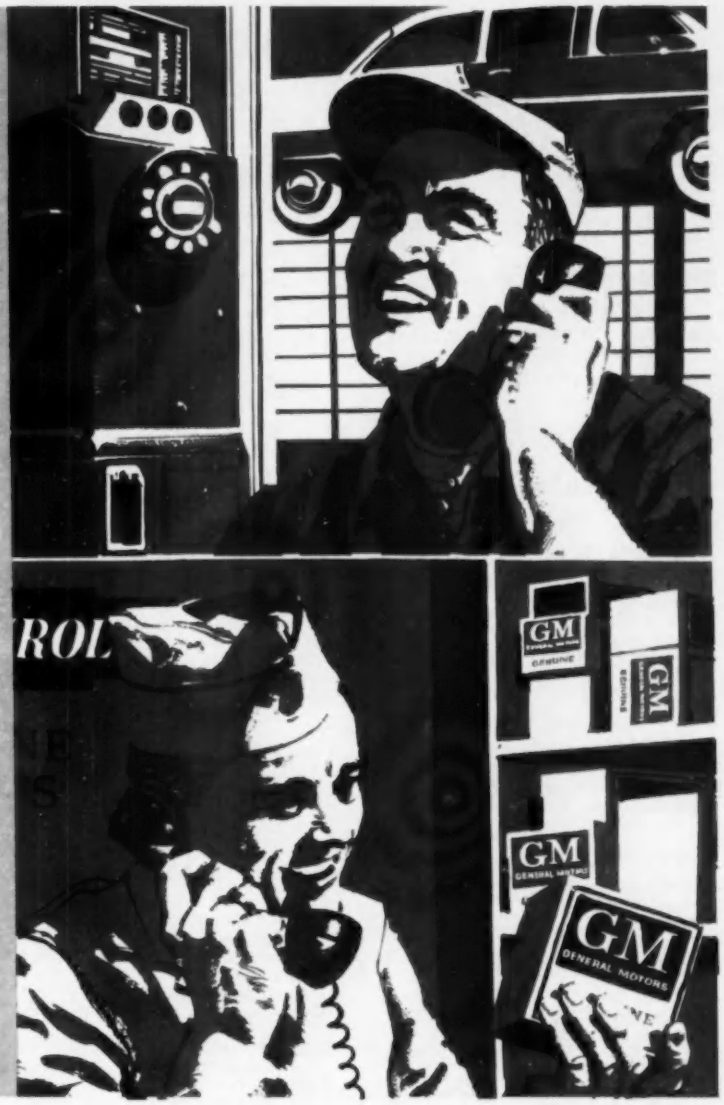
BE FOUR WAYS AHEAD!

Deal with your Chevrolet dealer for your parts requirements!

Here's why:

1. Your Chevrolet dealer is interested in you as an operator of Chevrolet vehicles. He wants to help you maintain them efficiently and economically.
2. Your Chevrolet dealer can be your one-stop, one-call source for *all* genuine Chevrolet parts.
3. Your Chevrolets can be quickly put back into service because Chevrolet replacement parts are made to fit right, to work together.
4. Genuine Chevrolet parts are built of the same quality materials and to the same rigid engineering specifications as the originals.

CHEVROLET DIVISION OF GENERAL MOTORS, DETROIT 2, MICHIGAN



CHEVROLET

MAKE YOUR CHEVROLET DEALER YOUR PARTNER IN SERVICE
...HE IS READY, WILLING AND ABLE TO SERVE YOU!

Testers to Tires & Tubes

TESTERS, Headlight—*continued*

Hopkins Mfg Corp
Manbee Equipment Div
WEAVER MFG CO

TESTERS, INSPECTION FOR CRACKS IN PARTS *See Magnaflux*

TESTERS, SPARK PLUG *See Spark Plug Testers*

TESTERS, Valve & Clutch Spring

Accurate Parts Mfg Co
Advertising Distributors Inc
Manzel Unit
Owatonna Tool Co
Rinck-McIlwaine Inc
STURTEVANT CO P A

THERMOMETERS, Recording & Indicating

BACHARACH INDUSTRIAL INSTRUMENT CO
Barber-Colman Co
Bristol Co
Dillon Co W C
ELECTRIC AUTOLITE CO
Foxboro Co
Freas Glass Works Francis L
Illinois Testing Laboratories
Kocour Co
Lewis Engineering Co
Manning Maxwell and Moore Inc
Minneapolis-Honeywell Regulator Co Industrial Div
The Partlow Corp
Powers Regulator Co
Precision Thermometer & Instrument Co
Rochester Mfg Co
RYAN RECORDING THERMOMETER CO
Taylor Instrument Companies
United States Gauge Div
Weston Instruments Div

THERMOSTATS

Barber-Colman Co
Bishop & Babcock Mfg Co
Dole Valve Co
Fulton Sylphon Div
HARRISON RADIATOR DIV
Mobil Oil Co
The Partlow Corp
Practical Mfg Co
Spencer Div of Metals and Controls Corp
United States Electric Controls Co
Vapor Heating Corp

THERMOSTAT TESTERS

Practical Mfg Co

THIRD AXLES *See Axle Units, Third*

THREADED INSERTS

Groov-Pin Corp
HELI-COIL CORP
NATIONAL SCREW & MFG CO
Roylyn Inc
SOUTHCO DIV

THREAD RESTORERS

Buckingham Mfg Co Inc

TIE-DOWNS, Cargo

American Logging Tool Corp
Brown Line Corp
Canton Manufacturing Co
Canton Malleable Iron
Cargo Stabilizing Devices
Cargotainer Div Tri-State Engineering Co
COLLINS & ASSOCIATES INC
Durbin-Durco Inc
Eagle Mfg Co
East Akron Tarpaulin & Awning Co
FIRESTONE TIRE AND RUBBER CO (inflatable dunnage)
GENERAL LOGISTICS DIV
Jordan Equipment Co
Load Stop Mfg Co
Stacy Mfg Co
U S RUBBER CO (inflatable dunnage)
Youngstown Steel Car Corp

TIE-DOWNS, TARPAULINS *See Tarpaulin Tie-Downs*

TIMING CHAINS

Chain Belt Co
D & B Mfg Co
Diamond Chain Co
Hoof Products Co
Lempco Products Inc
Link-Belt Co
Morse Chain Co
Perfection Gear Co
Ramsey Chain Co
Republic Gear Co
UNITED STATES RUBBER CO (rubber belt)
Whitney Chain & Mfg Co

TIMING GEARS

A1-Fin Div
Bangor Plastics Inc
Cloyes Gear & Products Inc
Continental-Diamond Fibre Corp
D & B Mfg Co
Detroit Bevel Gear Co
ELECTRIC AUTOLITE CO
Elgin Machine Works Inc
Hoof Products Co
International Parts Corp
Lempco Products Inc
Perfection Gear Co
Republic Gear Co
Timing Gears Corp
Wells Inc Martin
Westinghouse Electric Corp Micarta Div
Wolverine Gear & Parts Co

For addresses of manufacturers, see the new special section starting on **page 199**

TIMING LIGHTS

Allen Electric & Equipment Co
Arsco Mfg & Sales Corp
Auto Test Inc
Cloyes Gear and Products Inc
Cornwall Quality Tools Co
Dorothea Mechanisms Inc Gale
Electro Products Co
Hanson Co Harvey E
Herbrand Div Bingham-Herbrand Corp
Heyer Industries Inc
Hoof Products Co
Kennedy Service Tools Co
King Electric Equipment Co
Nasa Tool Mfg Corp
National Machine & Tool Co
Niehoff Co C E
Petroleum Solvents Corp
Schauer Mfg Corp
Sittler Corp
SNAP-ON TOOLS CORP
Sun Electric Corp
T & H Mfg Co
Tungsten Contact Mfg Co
Tungsten Mfg Co
Weidenhoff Corp

TIRES

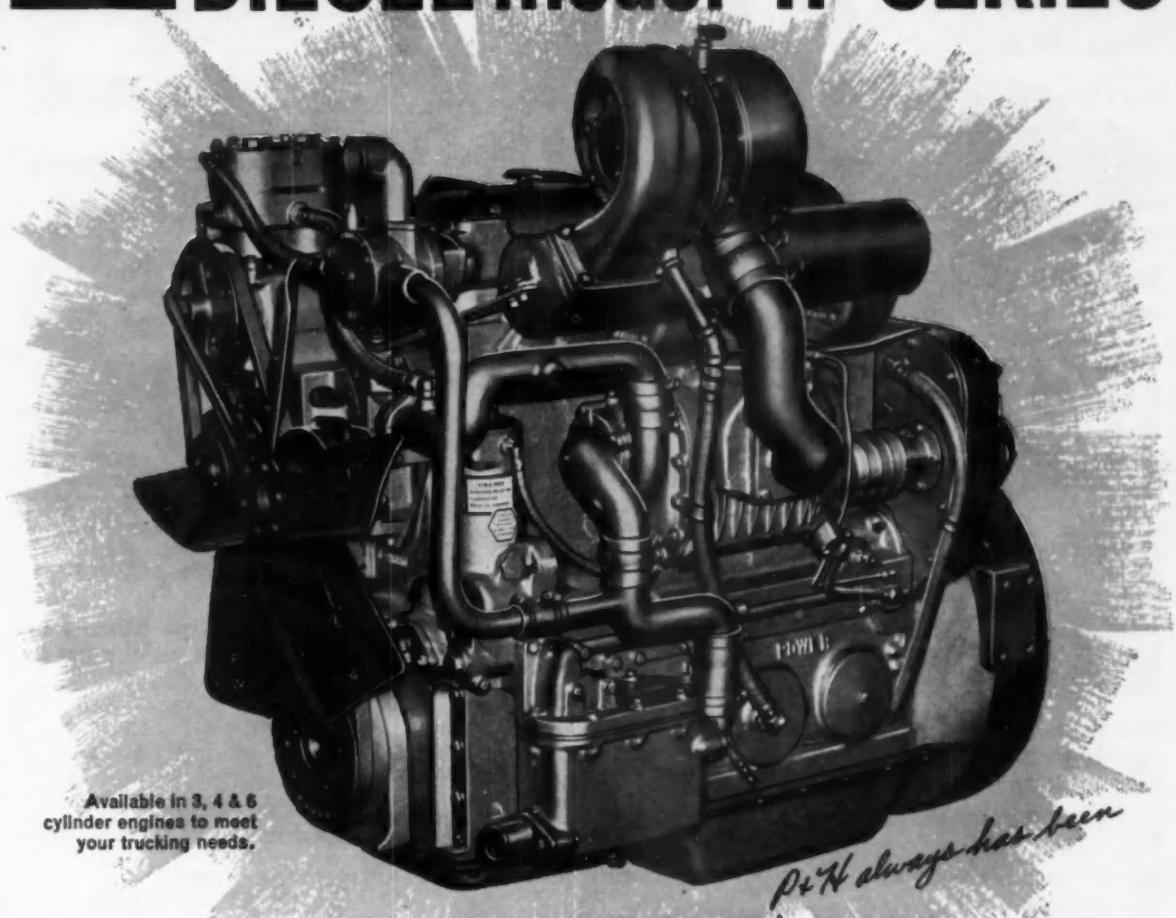
TIRES & TUBES

ARMSTRONG RUBBER CO
Armstrong-Norwalk Rubber Corp
Carlisle Tire & Rubber Div
COOPER TIRE & RUBBER CO
Corduroy Rubber Co
DAYTON RUBBER CO
Denman Rubber Mfg Co
Dunlop Tire & Rubber Corp
DURKEE-ATWOOD CO
ENJAY CO INC
FIRESTONE TIRE & RUBBER CO
Fisk Tire Co Div
GATES RUBBER CO
GENERAL TIRE & RUBBER CO
GOODRICH CO TIRE & EQUIPMENT DIV B F
GOODYEAR TIRE & RUBBER CO
Inland Rubber Corp
KELLY-SPRINGFIELD TIRE CO
LAHER SPRING & TIRE CO
LEE RUBBER & TIRE CORP
McCreary Tire & Rubber Co
Manfield Tire & Rubber Co
Miller Rubber Co Div of B F Goodrich Co
MOBIL OIL CO
MOHAWK RUBBER CO
Montgomery Ward Co
Pennsylvania Tire Co
Polson Rubber Co
Pure Oil Co
Robbins Tire & Rubber Co
Schenuit Rubber Co Frank G
SEARS ROEBUCK & CO
SEIBERLING RUBBER CO
UNITED STATES RUBBER CO

IT'S MODERN...IT'S DIFFERENT...IT'S HOT

Announcing NEW

P&H DIESEL model "H" SERIES



Available in 3, 4 & 6 cylinder engines to meet your trucking needs.

P&H always has been

LIGHTWEIGHT ALUMINUM 220 HP—1500 LBS. or only 6.82 LBS. per B.H.P.

power ... to match the most powerful

mileage ... to match the most economical

serviceability ... unmatched by any other "make"

reliability ... proved through 75 years of manufacturing heavy duty machinery

compare ... feature for feature and you will specify the *new* P&H Diesel—Model "H" Series

FOR ALL OF THE *PROFITABLE* FACTS WRITE: DEPT. 415

P&H HARNISCHFEGER CORPORATION

DIESEL ENGINE DIVISION • CRYSTAL LAKE, ILLINOIS

Tire Branding Irons to Tire Repair Compounds

TIRE, Branding Irons

EVERHOT MFG CO
Keel & Co
Merkert & Sons
Myers Tire Supply Co
Stackhouse E H
Vulcan Electric Co

TIRE CARRIER

BEW Corp
BINKLEY MFG CO
Coachcraft Ltd
Heil Co
Hilton Mfg Co
Hutchison Co
Industrial Steel Tank & Body Works Inc
Nash Bros Co

TIRE CHAINS

AMERICAN CHAIN DIV
Auto Master Corp
CAMPBELL CHAIN CO
Columbus-McKinnon Chain Corp
Hite Mfg Co
Hodell Chain Co Div
Lloyd Chain Mfg Co
McKay Co
Nixdorff-Krein Mfg Co
Peerless Chain Co
Roll-O-Matic Co
Russell Mfg Co Inc
St Pierre Chain Corp
Sal Metal Products Co
Southern Chain & Mfg Co
Taylor Chain Co S G
Thomas Co
Turner & Seymour Mfg Co
United States Chain Co
Western Chain Co

TIRE CHAIN ADJUSTERS

AMERICAN CHAIN DIV
CAMPBELL CHAIN CO
Crown Products Co
Grayson Tool Co
Hodell Chain Div
LEE RUBBER & TIRE CORP
Loock & Co R J
McKay Co
Nauman Mfg Corp R F
Nixdorff-Krein Mfg Co
Peerless Chain Co
Raymond Mfg Div
Round Woodhouse Chain & Mfg Co
St Pierre Chain Corp
Tingley Rubber Corp
UNITED STATES RUBBER CO
Western Chain Co
Wickwire Spencer Steel Div

TIRE CHAIN REPAIR LINKS

CAMPBELL CHAIN CO
Flower City Specialty Co
Hodell Chain Div
Loock & Co R J
McKay Co
Nixdorff-Krein Mfg Co
Peerless Chain Co
Rawhide Products Co
Raymond Mfg Div
Roll-O-Matic Chain Co
St Pierre Chain Corp
Sal Metal Products Co
Taylor Chain Co S G
Western Chain Co
Wickwire Spencer Steel Div

TIRE CHAIN REPAIR TOOLS

AMERICAN CHAIN DIV
Columbus-McKinnon Chain Corp
Hodell Chain Div
McKay Co
Manley Div
PORTER INC H K
St Pierre Chain Corp

TIRE CORD

BEKAERT STEEL WIRE CORP
CHEMSTRAND CORP
E I DU PONT DE NEMOURS & CO
GENERAL TIRE & RUBBER CO
FIRESTONE TIRE & RUBBER CO
LEE RUBBER & TIRE CORP
Myers Tire Supply Co
SEIBERLING RUBBER CO
TYREX INC
UNITED STATES RUBBER CO

TIRE INFLATORS

BENNETT PUMP DIV
Erie Meter Systems Inc
EVERHOT MFG CO
Gilbert & Barker Mfg Co
Myers Tire Supply Co
Romort Mfg Co
A SCHRADER'S SON DIV

TIRE INFLATING GUARDS

Belmont Body Builders
BRANICK MFG CO
Kennedy Service Tools Co
Kirspel Industries Inc
Myers Tire Supply Co

TIRE LUBRICANTS

AMERICAN GREASE STICK CO
American Sand-Banum Co Inc
BISHMAN MFG CO
Cohutta Talc Co
Dow Corning Corp
DURKEE-ATWOOD CO
Gross Mfg Co
Myers Tire Supply Co
National Adhesives Div
Rawhide Products Co
Remaco Inc
UNION CARBIDE CONSUMER PRODUCTS CO DIV
Western States Mfg Co

For addresses of manufacturers, see the new special section starting on page 199

TIRE PRESSURE GAGES

Acme Air Appliance Co
Bridgeport Brass Co
Dill Mfg Co
Druge Bros Mfg Co
Fisher Products Corp A R
G M Co Mfg Inc
Kennedy Service Tools Co
Myers Tire Supply Co
Omega Service Parts Corp
Remaco Inc
SCHRADER'S SON DIV
Syracuse Gauge Co

TIRE RECAPPING EQUIPMENT

Bacon American Corp
Balloon Tire Mould Co
BANDAG INC
BRANICK MFG CO INC
THE GENERAL TIRE & RUBBER CO
Harold E Kimes Corp
Heintz & Co James C
MOHAWK RUBBER CO
Myers Tire Supply Co
Reading Tire Machinery Co
Salsbury Corp
SEIBERLING RUBBER CO
Super Mold Corp of Calif
UNITED STATES RUBBER CO

TIRE RECAPPING SERVICE

BANDAG INC
FIRESTONE TIRE & RUBBER CO
GENERAL TIRE & RUBBER CO KRAFT DIV
Hawkinson Co
LEE RUBBER & TIRE CORP
MOHAWK RUBBER CO
Penetred Corp
SEIBERLING RUBBER CO
Webster Rubber Co

TIRE REGROOVERS

John Bean Div
Big-Four Industries Inc
Dixie-Jibo Co
Keel & Co
Mertens Mfg Co
Myers Tire Supply Co
Remaco Inc
Stackhouse E H
Thompson & Sons O E

TIRE REPAIR COMPOUNDS

AMERICAN GREASE STICK CO
Better Monkey Grip Co
DURKEE-ATWOOD CO
Even-Air Corp
FIRESTONE TIRE & RUBBER CO
GATES RUBBER CO
THE GENERAL TIRE & RUBBER CO
Gold Eagle Products Co
Gross Mfg Co
Hollingshead Corp R M

The Car That Remembers
The Fleet Operator . . .

RAMBLER FOR 1960!

Proved by 10 Years' Experience and 25 Billion Owner-Driven Miles!

In 1960—more than ever before—it makes good sound business sense to switch to Rambler for all your fleet requirements. For Rambler is the *one* car that offers the perfect balance fleet operators want:

From The World's Largest Builder Of Compact Cars—

RAMBLER FOR 1960

- **LOW FIRST COST**—Compare Rambler's initial cost with that of your present fleet units. You'll find you save when you buy Rambler.
- **TOP ECONOMY**—Rambler is America's recognized economy king. With more miles per gallon and low maintenance costs, you save every mile your Rambler fleet units operate.
- **HIGHEST RESALE VALUE**—You save again with Rambler when it comes time to trade or sell. Rambler has top resale value of all low-priced cars according to official used car guide books.
- **STRONGER, SAFER SINGLE UNIT CONSTRUCTION**—Pioneered by American Motors, Single Unit Construction means lasting freedom from body-bolt squeaks and rattles . . . cuts maintenance costs to the bone. Deep-Dip Rustproofing means lasting protection against rust and corrosion.

FLEET LEASING ARRANGEMENTS AVAILABLE

If your firm leases fleet units, ask your leasing company for low Rambler rates or write us for the names of leasing companies with whom we have working arrangements.

Write or Wire
FLEET SALES DEPARTMENT
DEPT. D-11

AMERICAN MOTORS CORP.
14250 Plymouth Road, Detroit 32, Michigan

Tire Service Equipment to Tire Tools

REPAIR COMPOUNDS—*contd.*

Instant Seal Corp
Kex Products
LEE RUBBER & TIRE CORP
Liquid Veneer Corp
Myers Tire Supply Co
Patch Rubber Co
Remaco Inc
A SCHRADER'S SON DIV
UNITED STATES RUBBER CO

TIRE SERVICE EQUIPMENT

ALBERTSON & CO INC
Automotive Equip Mfg Co
BISHMAN MANUFACTURING CO
BRANICK MFG CO INC
Buxbaum Products Co
CHICAGO PNEUMATIC TOOL CO
Coats Co
Dill Manufacturing Co
EVERHOT MFG CO
Jack P Hennessy Co
Kennedy Service Tools Co
May Bros Mfg Co Inc
Myers Tire Supply Co
PAR SALES CO
A SCHRADER'S SON DIV
SEIBERLING RUBBER CO
Skil Corp
SNAP-ON TOOLS CORP
Speedway Machine and Tool Co
STOW MFG CO
Tire-King Equipment Co

TIRE TESTING TANKS

Balcrank Inc
Balloon Tire Mould Co
Big Four Industries Inc
BISHMAN MFG CO
Coats Co
Independent Iron Works
Kennedy Service Tools Co
Lawson Co F H
Myers Tire Supply Co

TIRE TOOLS, HAND

A B C Mfg Co
Apco Mossberg Co
Balloon Tire Mould Co
Bib Boy Products Div
Big Four Industries Inc
BISHMAN MFG CO
Bos Tool Co
Bowes "Seal Fast" Corp
Bridgeport Hardware Mfg Corp
Cam Tool Co
CHICAGO PNEUMATIC TOOL CO
CLEVELAND GRAPHITE BRONZE DIV
Coats Co
Coats Loaders & Stackers Inc
EGAN MFG CO H B
Furo Metal Products Co
Greb Co
Herbrand Div
Indestro Mfg Co
INGERSOLL-RAND CO
K-D MFG CO
Keel & Co
KEN TOOL MFG CO
Kennedy Service Tools Co
Kerkling-Martin Inc
Kirspel Industries Inc
Lectrolite Corp
Lee Engineering Co
Lummis Mfg Co
Manley Div
May Bros Mfg Co
Mesco Products
Myers Tire Supply Co
National Machine & Tool Co
New Britain Machine Co Hand Tool Div

LUCKY MAN
who buys
IMPERIAL
tubing tools—service aids
displayed by his Jobber

You profit two ways when you buy Imperial Tools. You do the job FASTER — and you do it BETTER.

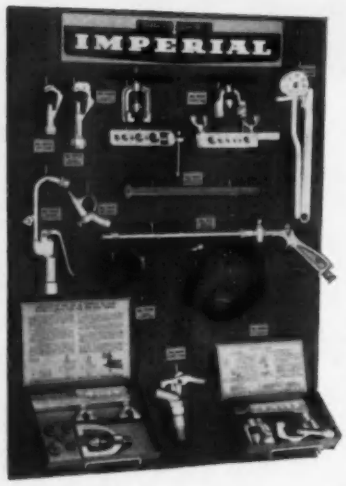
Just try an Imperial ball bearing Tube Cutter and see how quickly, cleanly, squarely it cuts tubing. Note the spare cutting wheel concealed under the reamer for use in emergencies.

See how Imperial Flaring Tools make perfect flares in less than 30 seconds. And for double flaring brake and fuel lines, there's the famous Imperial No. 93-FB that out-sells all other tools of this type.

It's the same story in bending and reaming.

Don't miss the new Imperial Flater-Blower that both blows and inflates! It's a real time saver.

Then there's an economical Engine Cleaner that's a real honey; also Drum Faucets and Radiator Faucets.



Look for the Imperial Tool Display at your Jobber's.
For additional details, write for Catalog No. 126

IMPERIAL

THE IMPERIAL BRASS MFG. CO.
Dept. CCJ-119
4900 W. Howard St., Chicago 48, Ill.
In Canada: 18 Hook Ave., Toronto, Ont.

For addresses of manufacturers, see the new special section starting on **page 199**

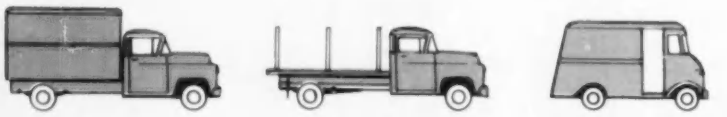
Now you can have DIESEL ECONOMY in light and medium-weight vehicles at low initial cost

HERCULES NEW DIESEL LINE is the first to make diesel re-powering of lighter vehicles both practical and economical

NEW HERCULES DIESELS FOR
ever priced within

CABS PICK-UPS MULTI-STOPS

3,000-6,000 GVW

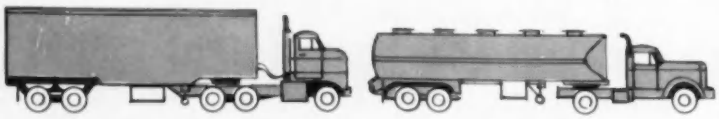


LIGHT VANS LIGHT STAKES ROUTE VANS

6,000-12,000 GVW

MEDIUM VANS LIGHT TRACTOR-TRAILERS

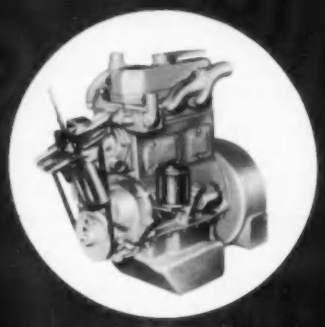
12,000-24,000 GVW (to 36,000 GCW)

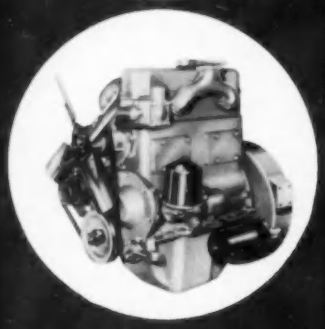


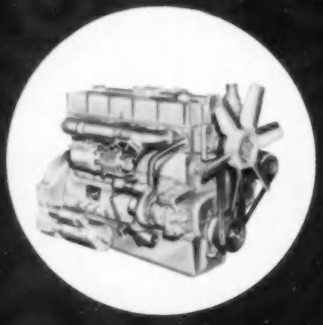
TRACTOR-TRAILERS TANKERS

22,000-38,000 GVW (to 55,000 GCW)

REPOWERING are the first reach of every operator!







MOST WEARING PARTS ARE INTERCHANGEABLE BETWEEN ALL ENGINES

HERCULES ECONOMICAL THREES

DD-149-H DD-169-H

- Compact, balanced design packs 60 max. hp in 550 lb package
- Full, 2,800 rpm automotive design and construction
- First economical 4-cycle diesel truck engine ever offered in its size
- Terrific 3-cylinder fuel economy for in-town service

HERCULES FUEL-MISER FOURS

DD-198-H DD-226-H

- 75 and 80 max. hp engines designed to match your vehicle's needs
- Outperforms many 6-cylinder diesels
- Compact . . . lower weight/brake hp than other comparable diesel engines
- Ideal for shuttle work . . . low fuel consumption with economical 4-cycle power

HERCULES POWER-PACKED SIXES

D-298-H D-298-HT

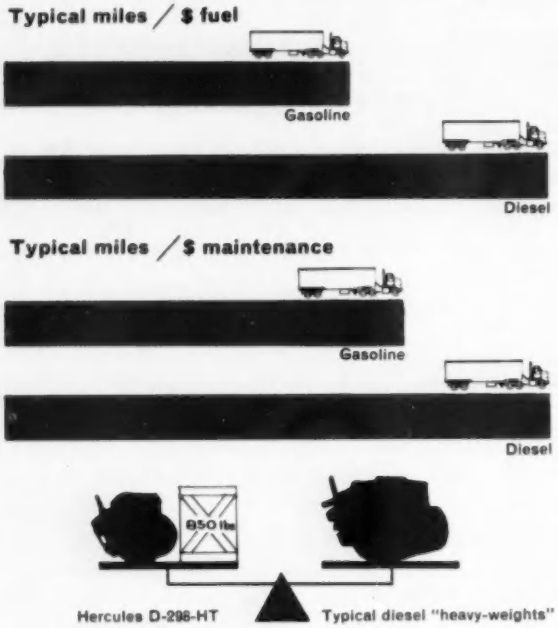
- 115 (naturally aspirated) and 175 (turbo-charged) max. hp at 3,000 rpm
- Lowest weight/hp of any diesels in their class—turbo-charged model weighs no more than many comparable gasoline engines
- 4-cycle fuel economy and simplicity
- Compact high-speed design permits repowering most gasoline engine-driven vehicles without changes in gear trains

D-426-H D-426-HT

- 150 and 180 max. hp from these quiet-running power plants
- Low weight/hp ratios—only 6.8 lb/BHP in the turbo-charged model
- Compact size makes repowering simple and easy
- 4-cycle economy saves on fuel costs, maintenance

and look at these low representative "fan-to-flywheel" list prices: 3 cylinder DD-169-H, $950; 6 cylinder D-298-H, $1400

Here's how you can earn more by REPOWERING WITH HERCULES DIESELS



FUEL ECONOMY

Everyone knows the one, big money-saving advantage of diesels: more ton-miles per dollar of fuel. And now Hercules makes these diesel savings available to operators of light and medium-weight trucks through its new line of light-weight, low-cost diesels. No need to pay for engine weight or horsepower you don't need: you can match a Hercules diesel to your vehicle for just the power and speed you want. And Hercules 4-cycle design really gives fuel economy, at idle or full throttle.

MAINTENANCE ECONOMY

Fleet records have confirmed that diesels normally operate up to 4 times longer than gas engines between major overhauls: require less tune-up, too, since there's less to go out of adjustment. So don't spend more money on costly gasoline engine maintenance when you can now buy economical diesels at a price you can afford. And Hercules diesel line offers complete interchangeability of high mortality parts between 3, 4, and 6-cylinder engines.

HIGHER PAYLOAD

These new Hercules diesels give big dividends in weight savings over large, over-the-road diesel engines. Each engine has been designed especially for its job and for the weight ranges of vehicles shown. As shown in our diagram, the result means as much as 850 pounds *less* engine dead-weight, 850 pounds *more* carrying capacity with Hercules diesels over other diesels offered for the same job. This means greater earning power for your trucks powered with Hercules diesels.

AND THERE'S MORE DIESEL NEWS IN THE MAKING AT HERCULES

The engines shown here are only part of the results of a 5-year development program which Hercules has conducted. Hercules research and development engineers have directed their efforts toward providing the trucking industry with diesel engines designed for—not applied to—today's requirements.

For example, here are some of the developmental engines on which exhaustive tests are now being completed: engines which will set new standards of performance and economy as vehicle power plants:

- *an aluminum V-8 truck diesel*, which will be more compact, more economical and lighter than any comparable engine available today
- *a line of "Polydiesel" engines*, to operate on diesel, gasoline, jet fuel, even kerosene *interchangeably*.

A NOTE TO TRUCK MANUFACTURERS:

You'll find that Hercules has a unique approach to diesel engines for OEM sales. It will pay you to investigate this further with your Hercules representative or by writing Hercules Motors Corp. at its Canton, Ohio headquarters.

SERVICE EVERYWHERE

Hercules has a growing, aggressive distributor organization anxious to serve you, wherever you are.

HERCULES MOTORS CORPORATION
Canton, Ohio

I'm interested in more specific information on how I can repower with new Hercules diesels:

Make & Model Truck _____ Year _____

Type of Service (check) ☐ in-city ☐ interurban ☐ interstate

Name _____

Title _____

Firm _____

Address _____

City _____ Zone _____ State _____

HERCULES

HERCULES MOTORS CORPORATION
Canton, Ohio

WATCH HERCULES FOR THE "NEW LOOK" IN ENGINES

TIRE TOOLS—*continued*

P & C Tool Co
Power Pak Products Inc
Proto Tool Co
Quality Tools Corp
Remaco Inc
Rinck McIlwaine Inc
St Pierre Chain Corp
Salsbury Corp

SCHRADER'S SON A

SNAP-ON TOOLS CORP

Speedmaster Ltd
Stackhouse E H

THREE STAR SALES CORP

Tire Machinery Corp of America

WEAVER MFG CO

Western States Mfg Co

TIRE STOCK RACKS *See Racks, Stock Storage*

TIRE VALVES & CAPS

Acme Air Appliance Co
Bowes "Seal Fast" Corp
Bridgeport Brass Co
Carlan Instruments Co
Dill Mfg Co
Druge Bros Mfg Co

DURKEE-ATWOOD CO

Emvir Mfg Co
G M Co Mfg Inc

GOODRICH TIRE CO B F

Hill Nut Co

MECHANEX CORP

Myers Tire Supply Co
Patch Rubber Co
Planet Metal Products Corp
Remaco Inc
Rite-Way Products Co

SCHRADER'S SON

Speaker Corp J W
Victor Instrument Mfg Co

TIRE VALVE RETHREADING TOOLS

Acme Air Appliance Co
Cal-Van Machine Products Inc
Dill Mfg Co
Duro Metal Products Co
G M Co Mfg Inc
Indestro Mfg Co
Kennedy Service Tools Co

KEN TOOL MFG CO

Myers Tire Supply Co
National Machine & Tool Co
Planet Metal Products Corp
Rinck-McIlwaine Inc
Rovtar Tool-Die Mfg Co

SCHRADER'S SON

TIRE VULCANIZERS

Acme Air Appliance Co
Balloon Tire Mould Co
Big Four Industries Inc
Biggs Steel Foundry and Fabricating Co

BISHMAN MFG CO

Bowes "Seal Fast" Corp
Bridgeport Brass Co
Center Line Mfg Co
Dill Mfg Co

EGAN MFG CO

THE GENERAL TIRE & RUBBER CO

Heintz & Co James C
Myers Tire Supply Co

SCHRADER'S SON

Shaler Co
Speaker Corp J W
Western States Mfg Co

TOE-IN GAGE *See Alignment Equipment (Front End)*

TOOLS

TOOLS, Body
(See also Rams, Hydraulic)

Blair Equipment Co
Bonney Forge & Tool Works
Brown Tool Mfg Co
Chicago Tool & Kit Mfg Co
Douglas Tool Co
Duro Metal Products Co
Fairmont Tool & Forging Inc
Hauschild Mfg Co F J

HEIN-WERNER CORP

Heller Tool Co
Hopkins Mfg Co
Keysco Mfg Co
Milwaukee Electric Tool Co
New Britain Machine Co., Hand Tool Div
Nicholson File Co
Nolvex File Co
Owatonna Tool Co
P & C Tool Co
Penn Fibre & Specialty Co

PORTER INC H K

Red Devil Tools
Rivette Mfg Co
Roberts Toledo Rubber Co
Salisbury Corp
Stanley Tools
Steck Line Tools Inc
Stream Line Tools Inc
Swiss Laboratory
Vulcan Mfg Co

WATERVLIET TOOL CO

Williams & Co J H
Wilson Inc K R

TOOLS, Brake Spring

BARRETT EQUIPMENT CO

Cal-Van Machine Products Inc
Champion DeArment Tool Co
Corwell Quality Tools Co
Denis Mfg Co
Herbrand Div

K-D MANUFACTURING CO

Kennedy Service Tools Co
Krome Co
Manzel Unit
Nasa Tool Mfg Corp

For addresses of manufacturers, see the new special section starting on **page 199**

New Britain Machine Co Hand Tools Div
Owatonna Tool Co
Proto Tool Co
Quality Tools Corp
Rinck McIlwaine Inc

SNAP-ON TOOLS CORP

Utica Drop Forge & Tool Div
Williams & Co J H

TOOLS, CLUTCH ALIGNMENT *See Clutch, Alignment Tools*

TOOLS, FLARING *See Tubing Flaring Tools*

TOOLS, Hand

ABC Mfg Co
Agner Simplex Co
Apco Mossberg Co
Apex Machine & Tool Co
Armstrong Bros Tools Co
Armstrong Mfg Co
Atmars Tool Co
BMC Mfg Co

BACHARACH INDUSTRIAL INSTRUMENT CO

BARRETT EQUIPMENT CO

Bath & Co John
Bay State Tap & Die Co
Beall Tool Div
Beard Tool Co
Bergman Tool Mfg Co
Besley & Co Chas H
Billings & Spencer Co

BLACKHAWK MFG CO

Boker & Co
Bonney Forge & Tool Works
Bremil Mfg Co
Bridgeport Hardware Mfg Corp
Brubaker & Bros Co W L
Buckeye Reliner Producing Co
Burndy Corp
Burroughs Tool & Equipment Corp
Callahan Mfg Co
Cal-Van Machine Products Inc
Cam Tool Co Inc
Card Mfg Co S W Div
Champion DeArment Tool Co
Chicago Tool & Kit Mfg Co
Cincinnati Tool Co
Cleveland Steel Tool Co
Cornwell Quality Tool Co
Conant & Donelson Co
Crescent Co
Danielson Mfg Co
Delaware Tool Steel Corp
Division Lead Co
Dixon Inc William
Douglas Tool Co
Dura-Bond Engine Parts Co
Duro Metal Products Co
Fairmount Tool & Forging Co
Forsberg Mfg Co
G M Mfg Co
Gasket Packing & Specialty Co
Geometric Tool Co Div

GOODRICH CO B F

GOODYEAR TIRE & RUBBER CO

Greene Tweed & Co
Greenfield Tap & Die Corp
Hanson-Whitney Machine Co

HEIN-WERNER CORP

Heller Bros Co
Hendry Co C J

Tools to Towers

TOOLS, Hand—*continued*

Henry & Allen Inc
Herbrand Div
Holub Industries Inc
Hunt Mfg Co
Ideal Industries Inc
Indestro Mfg Co
Jari Products Inc
Jergans Tool Specialty Co

K-D MFG CO

Kaalot Mfg Co
Kaywood Products Corp
Kennedy Service Tools Inc

KEN TOOL MFG CO

Kent-Moore Organization Inc
Keystone Reamer & Tool Co
Lambert Products Inc
Landis Machine Co
Larson Tool & Stamping Co
Leterstone Sales Co
Loock & Co R A
Lufkin Rule Co
Manzel Unit
Martindale Electric Co
Matticks Mfg Co
Mayhew Steel Products Inc
Mechanic's Tool & Forge Co
Metal Engineering Co
Miller Mfg Co
Millers Falls Co
Moffatt Products Inc
Morse Twist Drill & Machine Co
Murchey Machine & Tool Co
Nasa Tool Mfg Corp
National Machine & Tool Co
Nemco-Speodex Mfg Co Div
New Britain Machine Co
New England Pressed Steel Co
New Plastic Corp
Niagara Machine & Tool Works
Owatonna Tool Co
P & C Tool Co
Park Metalware Co
Peck Stowe & Wilcox Co
Peterson Mfg Co
Proto Tools
Polaris Products Inc
Pratt & Whitney Div
Quality Tool Corp
Reiff & Nestor Co
Reltool Corp
Rhode Island Tool Co
Richards Co J A
Rink McIlwaine, Inc
Roberts Toledo Rubber Co
Rovtar Tool-Die Mfg Co
Royar Automotive Tool Co
S-K/Lectrolite Tools
St. Pierre Chain Corp
Sherman-Klove Co
Smith & Sons Inc Seymour

SNAP-ON TOOLS CORP

Standard Tool Co
Stanley Tools
Starrett Co L S
Stevens-Walden Inc
Stortz & Son John
Sweeney Mfg Co B K
Tri-Grip Co
Trimont Mfg Co Div
Truth Tool Co
Tuck Mfg Co
Union Tool Co
Union Twist Drill Co
Union Twist Drill Co Butterfield Div
Ushco Mfg Co
Utica Drop Forge & Tool Corp
Unican Plastics Co Inc
Vaco Products Co
Vermont Tap & Die Corp
Vichek Tool Co
Walworth Co
Western Automatic Machine Screw Co
Whitaker Mfg Co
Whitman & Barnes Div
Wilde Drop Forge & Tool Co
Williams & Co J H
Wiss & Son Co J
Wood & Spencer Co
Wright Tool & Forge Co
Zoerman-Clark Mfg Co

TOOLS, Ignition

Billings & Spencer Co

BLACKHAWK MFG CO

Bonney Forge & Tool Works
Cornwell Quality Tools Co
Duro Metal Products Co
Foster Mfg Co
Herbrand Div
Hoffman E W & W G
Indestro Mfg Co

K-D MFG CO

Kal-Equip Co
Kastar Inc
Kem Mfg Co
Kennedy Service Tools Co
Loock & Co R J
Manzel Unit
Metal Engrg Co
National Ignition Mfg Co
New Britain Machine Co Hand Tools Div
Owatonna Tool Co
P & C Tool Co
Proto Tools
Rovtar Tool-Die Mfg Co
Shaw Co Joseph

SNAP-ON TOOLS CORP

STANDARD MOTOR PRODUCTS INC

Wilde Drop Forge & Tool Co
Williams & Co J H

TOOLS, INJECTOR SERVICE *See Injector Service Tools*

TOOLS, PISTON PIN REMOVING & INSTALLING *See Piston Pin Removing & Installing Tools*

TOOLS, TIRE *See Tire Tools*

TOOLS, Valve Seat Installing

BISHMAN MFG CO

CEDAR RAPIDS ENGRG CO

HALL-TOLEDO INC

Herbrand Div
Lee Co K O
Manzel Unit
Owatonna Tool Co

A SCHRADER'S SON DIV

Skil Corp
Speaker Mfg Co
Thor Power Tool Co

TOOLS, Valve Guide

ALBERTSON & CO

Al-Power Mfg Co

HALL-TOLEDO INC

Herbrand Div
Hub City Iron Co

K-D MFG CO

Kennedy Service Tools Co
Kent-Moore Organization Inc
Lisle Corp
Manzel Unit
Minnesota Automotive, Inc
New Britain Machine Co Hand Tools Div
National Machine & Tool Co
Owatonna Tool Co
P & C Tool Co

PITTSBURGH PLATE GLASS CO

Proto Tool Co

SNAP-ON TOOLS CORP

Thor Power Tool Co
Versnick Mfg Co
Wilde Drop Forge & Tool Co
Zim Mfg Co

TORQUE CONVERTERS

Borg & Beck Div

CLARK EQUIPMENT CO TRANSMISSION DIV

DANA CORP

FULLER MFG CO TRANSMISSION DIV

Long Mfg Div

ROCKWELL - STANDARD CORP TRANSMISSION & AXLE DIV

Twin Disc Clutch Co
Western Gear Corp

TORQUE WRENCHES

Ammco Tools Inc
Apco Mossberg Co
C & G Wheel Puller Co
Chicago Tool & Kit Mfg Co

CLARK EQUIPMENT CO AUTOMOTIVE DIV

Duro Metal Products Co
Fairmount Tool & Forging Inc

HASTINGS MFG CO

Herbrand Div
Jo-Line Tools Inc
Kent-Moore Organization Inc
La Salle Tool Inc
Manzel Unit
New Britain Machine Co Hand Tools Div
Owatonna Tool Co
P & C Tool Co
Proto Tools
Reasor Mfg Co
Richmont Inc (also torque screwdrivers and testers)
Skidmore Engineering Co

SNAP-ON TOOLS CORP

STURTEVANT CO P A

SUNNEN PRODUCTS CO

Sweeney Mfg Co B K
Williams & Co J H
Wilson Inc K R

TOWERS, Hydraulic (For Use In Overhead Repairs)

Gordon Metal Products Co
Holan Corp J H

McCabe-Powers Body Co
Silent Hoist & Crane Co
Stahl Metal Products Inc
Transport Products Co
Utility Tool & Body Co

TOWING BARS

Cam Tool Co Inc
Fulton Co
Holan Corp
Manley Div
Marion Mfg Co
Pilot Mfg Co
Wood-Williams-Coop Mfg Co

TOWING HOOKS

Austin Trailer Equipment Co
Cam Tool Co Inc
Cleveland Hardware & Forging Co
F W D Co
Holan Corp
HOLLAND HITCH CO

TRACTORS, Crawler

Allis-Chalmers Mfg Co
J I Case Co
Caterpillar Tractor Co
Deere & Co
Euclid Div
INTERNATIONAL HARVESTER CO
The Oliver Corp

TRACTORS, TRUCK *See Trucks*

TRAILERS

TRAILERS, Automobile Transport

Fox Body Co
FRUEHAUF TRAILER CO
Mechanical Handling Systems Inc
Traffic Transport Engr Inc
Troyler Corp
Whitehead & Kales

TRAILERS, Commercial

ALF Body Corp
Ace Trailer & Equipment Co Div
Adams Engrg Co
AEROBILT BODIES INC
Aluminum Body Corp
American Body & Trailer Inc
American Machine Works
American Trailer & Mfg Co
Andrews Industries Inc
Anthony Co
Athey Products Corp
Baker Equipment Engineering Co
BARTLETT TRAILER CORP
Beall Pipe & Tank Corp
Bedell Trailer Co
Birmingham Mfg Co
Black Diamond Trailer Co
Brown Truck & Trailer Mfg Co
BROWN TRAILER DIV
Brunswick Body Wks
C & C Trailer & Body Co
Carlisle Machine Works
Cemco Industries Inc
Clark Co B M
Clement-Braswell Inc
Converto Mfg Co
Cooke Bros Equipment Co
Copco Trailers Div
Cox & Sons Leon O
Dart Truck Co
Delphi Body Works
Detroit Trailer Co
DORSEY TRAILERS INC
Easton Car & Construction Co
Edwards Equip Co
Eidal Mfg Co
Eight Point Trailer Co
Elder Trailer & Body Inc
Eshelman Co Cheston L
Evans Mfg Co John
Farrell Mfg Co
Fayette Mfg Co Haulette Div
Feigelson Co Alex
Fontaine Truck Equipment Co
Freightliner Corp
Fruehauf-Carter Div
FRUEHAUF TRAILER CO
Galion Allsteel Body Co
Gindy Mfg Corp
Gramm Trailer Corp
Great Dane Trailers Inc
Hanson Clutch & Machinery Co
Heil Co
HIGHWAY TRAILER CO
HOBBS TRAILERS DIV
Humes Truck & Trailer Mfg Co
Kelly Ryan Equipment Co
Kentucky Mfg Co
KEYSTONE TRAILER & EQUIPMENT CO
Kingham Trailer Co
La Crosse Trailer Corp
Langlois Bros
Lodestar Corp
Lufkin Foundry and Machine Co
LYNCOACH & TRUCK CO
McCabe-Powers Body Co
McKay Mfg Co John A
Martin Trailer Div
Mastercraft Trailers Inc
Miami Specialties Co
Mighty Mover Straddle Trailer Co
Miller & Smith Mfg Co
Miller Trailers Inc
Nabors Co W C
Nelson Mfg Co
Ohio Body Mfg Co
Omaha Body and Equipment Co
Omaha Standard
Oren Fire Apparatus Co
Page & Page Co
Pak-Mor Mfg Co
Paul Bunyon Co
Peerless Trailer Co
Pierce Trailer & Equipment Co
Pointer-Williamette Co
Progress Mfg Co Oil Equipment Div
Reliance Trailer & Truck Co
Rogers Bros Corp
Santeler Bros
Schafer Plow Co
Schertzer Equipment Co
Selma Trailer & Mfg Co
Spartan Aircraft Co

For addresses of manufacturers, see the new special section starting on **page 199**

Spen & Co Henry
Spencer-Saffard Loadcraft Inc
Standard Trailer Co
STRICK TRAILERS DIV
Superior Trailer Mfg Corp
TALBERT TRAILERS INC
TEC DIV HEIL CO
Thomas & Co Peter
Thompson Trailer Corp
Timmons Metal Products Co
TIMPTE BROS INC
Trailco Mfg & Sales Co
Trailevator Div Maglene Inc
TRAILMOBILE INC
Transport Trailers Inc
Troyler Corp
Truck Parts & Equipment Inc
Truck-Trailer Supply Co
Tyler Equipment Co
Utility Tool & Body Co
Veenema & Wiegers Inc
Vulcan Trailer Mfg Co
Weber Trailer & Mfg Co
Wells Cargo Div
Wentworth & Irwin Inc
Westland Trailer Co
Whitehead & Kales Co
Williamsen Body & Equipment Co
Wilson Trailer Co
Winter-Weiss Co
Wolf Engrg Corp

TRAILER AXLES *See Axles, Trailer*

TRAILER AXLE DOLLIES *See Axle Dollies*

TRAILER CONNECTOR ELECTRIC *See Connectors, Trailer Electric*

TRAILER FLOORING *See Flooring*

TRAILER HITCHES

DAYTON STEEL FOUNDRY CO THE
Spencer-Safford Loadcraft Inc
Utility Trailer Mfg Co
WESTERN UNIT CORP

TRAILER LOCKS

Chicago Lock Co
EBERHARD MFG CO DIV
Echart-Trailock Div

TRAILER SUSPENSION UNITS *See Axle Suspension Units Trailer*

TRAILER TANKS *See Tanks, Trailer & Truck Body*

TRAILER WHEELS *See Wheels*

TRANSMISSIONS

ALLISON DIV GENERAL MOTORS CORP
CLARK EQUIPMENT CO TRANSMISSION DIV
Cotta Transmission Co
DANA CORP

Transmission Gears & Shafts to Trucks

TRANSMISSIONS—*continued*

Detroit Gear Div
Detroit Transmission Div
EATON MFG CO AUTOMOTIVE GEAR DIV
FULLER MFG CO TRANSMISSION DIV
Lempco Products Inc
New Process Gear Div
RAYBESTOS DIV
ROCKWELL - STANDARD CORP TRANSMISSION & AXLE DIV
THOMPSON PRODUCTS REPLACEMENT DIV
Warner Gear Div

TRANSMISSIONS, Auxiliary

COOK BROS EQUIPMENT CO
DANA CORP
FULLER MFG CO TRANSMISSION DIV
RAYBESTOS DIV (parts only)
Sherman Products Inc
THOMPSON PRODUCTS REPLACEMENT DIV (parts only)
Truckstell Mfg Co
Warner Gear Div

TRANSMISSION GEARS & SHAFTS

Brad Foote Gear Works Inc
CLARK EQUIPMENT CO
Cleveland Hone & Mfg Co
Cotta Transmission Co
DANA CORP
Detroit Bevel Gear Co
Dittmer Gear Div
EATON MFG CO AUTOMOTIVE GEAR DIV
Fairfield Mfg Co
International Parts Corp
Lempco Products Inc
Levene Motor Co
Lion Auto Parts & Mfg Co
Modern Machine Works Inc
New Process Gear Div
Perfection Gear Co
Republic Gear Co
Toledo Steel Products Co
Warner Automotive Parts Div

TRANSMISSION JACKS *See Jacks, Transmission*

TRANSMISSION OIL FILTERS *See Oil Filters, Transmission*

TRANSMISSION STANDS *See Stands*

TROUBLE LAMPS *See Lamps, Trouble*

TRUCKS

TRUCKS, Gasoline

American-Coleman Co
AUTOCAR DIV
Available Truck Co Div
BROCKWAY MOTOR TRUCKS DIV
Champion Carriers Inc
CHEVROLET MOTOR DIV
Cline Truck Co
Cook Bros Equipment Co
Corbitt Co
Crown Coach Corp
DIAMOND T MOTOR TRUCK CO
DIVCO TRUCK DIV
DODGE DIV
Duplex Div
Esco Motor Co
Federal Motor Truck Co
FORD DIV FORD MOTOR CO
FWD Corp
GMC TRUCK & COACH DIV
HENDRICKSON MFG CO
INTERNATIONAL HARVESTER CO
KW-Dart Truck Co
Kenworth Motor Truck Co
MACK TRUCKS INC
Marmon-Herrington Co Inc
Milford Crane & Machine Co
OSHKOSH MOTOR TRUCK INC
Peterbilt Motors Co
REO DIV
Sicard Industries Inc
STUDEBAKER-PACKARD CORP
Truckstell Mfg Co
Volkswagen of America Inc
WALTER MOTOR TRUCK CO
Ward-LaFrance Truck Corp
WHITE MOTOR CO
Willys Motors Inc
Wolf Engrg Corp

TRUCKS, Diesel

American Coleman Co
AUTOCAR DIV
Available Truck Co Div
BROCKWAY MOTOR TRUCKS DIV
Cline Truck Co
Cook Bros Equipment Co
Corbitt Co
DIAMOND T MOTOR TRUCK CO
DODGE DIV
Duplex Dix
Euclid Div
Federal Motor Truck Co
Freightliner Corp
FWD Corp
GMC TRUCK & COACH DIV
HENDRICKSON MFG CO
INTERNATIONAL HARVESTER CO
KW-Dart Truck Co
Kenworth Motor Truck Corp
MACK TRUCKS INC
OSHKOSH MOTOR TRUCK INC
Parsons Co
Peterbilt Motors Co
REO DIV WHITE MOTOR CO
Sicard Industries Inc
VOLVO IMPORT INC
WALTER MOTOR TRUCK CO
Ward-LaFrance Truck Corp
WHITE MOTOR CO

TRUCK BODY HOISTS *See Body Hoists*

TRUCK DOORS (OVERHEAD) *See Doors, Overhead, Truck & Trailer*

TRUCK DOORS, STEEL *See Doors, Truck Steel*

TRUCK FLOORING *See Flooring Truck & Trailer*

TRUCK FRAMES *See Frames Pressed Steel*

TRUCK GATES, FOLDING *See Gates, Truck Folding*

TRUCKS, HAND, *See Hand Trucks*

TRUCK LOADERS (ELEVATING TAILGATE) *See Tail Gates Elevating*

TRUCKS, Dump (Construction & Off Highway)

(See also Bodies Dump)

Allis-Chalmers Mfg Co
AUTOCAR DIV
BROCKWAY MOTOR TRUCKS DIV
Duplex Div
Euclid Div
FWD Corp
GMC TRUCK & COACH DIV
HENDRICKSON MFG CO
INTERNATIONAL HARVESTER CO
KW-Dart Truck Co
Kenworth Motor Truck Co
Koehring Co
LeTourneau-Westinghouse Co
MACK TRUCKS INC
OSHKOSH MOTOR TRUCK INC
Peterbilt Motors Co
REO MOTORS DIV
Wooldridge Mfg Div

TRUCKS, Electric

Cleveland Vehicle Co

TRUCKS, Fire Apparatus

American-LaFrance Corp
BOYERTOWN AUTO BODY WORKS INC
BROCKWAY MOTOR TRUCKS DIV
Crown Coach Corp
Federal Motor Truck Co
FWD Corp
General Fire Truck Co
Gichner Iron Works Inc Fred S
Hahn Motors Inc
HENDRICKSON MFG CO

Howe Fire Apparatus Co
MACK TRUCKS INC
Maday Body & Equip Co
Maxim Motor Co
Oren Roanoke Corp
OSHKOSH MOTOR TRUCK INC
Pirsch & Sons Co Peter
Seagrave Corp
Universal Fire Apparatus Corp
Ward-LaFrance Truck Corp

TRUCKS, FORK LIFT *See Lift Trucks*

TRUCKS, RENTAL (NATIONWIDE ONLY) *See Leasing Companies (Nationwide)*

TUBELESS TIRE EXPANDERS, BEAD *See Tire Service Equipment*

TUBES, INNER *See Tires & Tubes*

TUBING

TUBING, Brass & Copper

American Brass Co French Small Tube Div
BENDIX WESTINGHOUSE AUTOMOTIVE AIR BRAKE CO
Bridgeport Brass Co
Chase Brass & Copper Co
DORMAN PRODUCTS INC
Everhot Products Co
Excello Accessories Mfg Inc
Formed Tubes Inc
Hand H Tube & Mfg Co
Kensico Tube Co
Linderme Tube Co
Mueller Brass Co
National Copper & Smelting Co
National Ignition Mfg Co
Penn Brass & Copper Co
Perfect Parts Inc
Planet Metal Products Corp
Precision Tube Co
Preferred Electric & Wire Co
Revere Copper & Brass Inc
Roll Formed Products Co
Scovill Mfg Co
Superior Tube Co
United Wire & Supply Corp
Velvac Inc
WEATHERHEAD CO THE
ALEXANDER-TAGG INDUSTRIES INC
American Brass Co Anaconda Hose Div
Atlantic Metal Hose Co
Continental Rubber Works
Co-Operative Industries Inc
D'Nomlart Inc
Flexico Products Inc
Flexonics Corp
Forsyth Metal Goods Co
Gabriel Co
International Metal Hose Co
Mulconroy Co
Revere Copper & Brass Inc
Ryder Mfg Co
Titeflex Inc
Universal Metal Hose Co

TUBE FITTINGS

Aircraft Fitting Co
BENDIX WESTINGHOUSE AUTOMOTIVE AIR BRAKE CO
DORMAN PRODUCTS INC
Edelmann & Co E
IMPERIAL BRASS MFG CO
Moore & Co Samuel
Resistoflex Corp
Titeflex Inc
WEATHERHEAD CO FORT WAYNE DIV

TUBE BENDERS

Cornwell Quality Tools Co
Duro Metal Products Co
Edelmann & Co
Excello Accessories Mfrs Inc
Fairmount Tool & Forging Inc
HEIN-WERNER CORP
IMPERIAL BRASS MFG CO
Leonard Precision Products Co
Lidseen of N C Inc
O'Neill-Irwin Mfg Co
Owatonna Tool Co
Parker-Hannifin Corp
Paul Machine Tool & Die Works
Pines Engrg Co
WEATHERHEAD CO FORT WAYNE DIV
Williams White & Co

TUBING CUTTERS

Acorn Mfg Co
Armstrong Bros Tool Co.
Cornwell Quality Tools Co
DORMAN PRODUCTS INC
Duro Metal Products Co.
Edelmann & Co E
EVERHOT PRODUCTS CO
Excello Accessories Mfrs Inc
Fairmount Tool and Forging Inc
G M Co Mfg Inc
Hebrand Div
Hunt Mfg Co Geo L
IMPERIAL BRASS MFG CO
J & J Machine Co
Kennedy Service Tools Inc
Kent-Moore Organizations Inc
Leader Screw & Mfg Co
Moffatt Products Inc
National Machine & Tool Co
New Britain Machine Co Hand Tools Div
Owatonna Tool Co
Proto Tool Co
Parker-Hannifin Corp
Penn Brass & Copper Co
Preferred Electric & Wire Co
Quality Tools Corp
RIDGE TOOL CO
Rinck-McIlwaine Inc
Rovtar Tool-Die Mfg Co
Severance Tool Industries Inc
Simonds Saw & Steel Co
Stevens Walden Inc
Trimont Mfg Co Div

For addresses of manufacturers, see the new special section starting on **page 199**

WEATHERHEAD CO FORT WAYNE DIV
J H Williams & Co
Zoerman-Clark Mfg Co

TUBING FLARING TOOLS

Cornwell Quality Tools Co
DORMAN PRODUCTS INC
Edelmann & Co E
Fairmount Tool & Forging Inc
Herbrand Div
Kennedy Service Tools Co
Owatonna Tool Co
Penn Brass & Copper Co
Proto Tool Co
Rinck McIlwaine Inc
WEATHERHEAD CO FORT WAYNE DIV
J. H. Williams & Co

TUBING, FLEXIBLE METALLIC *See Hose Air, or Fuel Lines, or Oil Lines*

TUBING, Loom

Asbestos Textile Co
BERG MFG & SALES CO
Essex Wire Corp
Preferred Electric & Wire Co
Velvac Inc

TUBING, WINDSHIELD WIPER *See Hose Vacuum*

TUNE-UP EQUIPMENT *See Analyzers*

TUNE-UP OIL *See Additives*

TURBOCHARGERS

AirResearch Industrial Div
CUMMINS ENGINE CO
I-T-E Circuit Breaker Co
SCHWITZER CORP
THOMPSON PRODUCTS INC

TURN SIGNALS *See Directional Signals*

UNDERCOATINGS, Chassis & Body

Anderson-Pritchard Oil Corp
Battenfield Grease & Oil Corp
Borden Chemical Co. Div
Carborundum Co
Carey Mfg Co Philip
Daubert Chemical Co
DITZLER COLOR DIV
Ensign Products Co
Flintkote Co
GATES ENGINEERINNG CO
Gibson-Homans Co
Hollingshead Corp R M
Hutson Div
Insul-Mastic Corp of America
Lion Oil Co
Mortell Co J W
Pennsylvania Refining Co
Pioneer Products Div
Presstite-Keystone Engrg Products Co

Undercoating Sprayers to Valves

UNDERCOATINGS—*continued*

Service Industries

SHERWIN-WILLIAMS CO

Steelcote Mfg Co
Vibradamp Corp
Witco Chemical Co

UNDERCOATING SPRAYERS

ALEMITE DIV

ARO EQUIPMENT CORP

Black Mfg Co
Electric Sprayit Co.
Gray Co
Hudson Mfg Co

KELLOGG DIV

Smith Mfg Corp
The Spee-Flo Co
Stowe Jr George M

UNDERCUTTERS, Mica

Allen Electric & Equipment Co
Atlas Press Co
Ideal Industries Inc
International Products & Mfg Co
Martindale Electric Co
Motoraide Corp
Nasa Tool Mfg Corp
Newnan Machine Co
Red Devil Tools
Rite Tool Inc
South Bend Lathe Works
Weidenhoff Corp
Wood Co Frank N

UNIFORM FABRICS *See Fabrics, Uniform*

UNIVERSAL JOINTS

Alloy Mfg Co
Blood Brothers Machine Co. Div
Boston Gear Works Div
Cleveland Steel Products Corp

DANA CORP

Detroit Bevel Gear Co
Detroit Universal Div
Gear Grinding Machine Co
Imco Mfg & Sales Co
Lempco Products Inc
Lion Auto Parts & Mfg Co
Lord Mfg Co
Mechanics Universal Joint Div
Motive Equipment Mfrs Inc
Motor Master Products Corp
Muncie Parts Mfg Co
Neapco Products Inc
New Process Gear Div
Parts Mfg Co
Precision Universal Joint Corp
Republic Gear Co
Rockwell-Standard Corp Universal Joint Div
Root Co B M

SAGINAW STEERING GEAR DIV

Stimmel Winch Co

STOW MFG CO

Western Automotive Co
Wheel Parts & Mfg Co
Williams Engineering Corp

UPPER CYLINDER OILS *See Additives, Fuel & Oils*

UPPER CYLINDER LUBRICATORS *See Lubricators, Upper Cylinder*

VACUUM BRAKE HOSE *See Hose, Vacuum Brake*

VACUUM BRAKES *See Brakes Vacuum System & Parts*

VACUUM GAGES (Engine)

Allen Electric & Equipment Co
Arsco Mfg & Sales Corp
Auto-Test Inc
Cornwell Quality Tools Co

ELECTRIC AUTOLITE CO

Electro Products Co
Hanson Co Harvey E

HASTINGS MFG CO

Kennedy Service Tools Co
King Electric Equipment Co
Nasa Tool Mfg Corp
National Machine & Tool Co
Niehoff & Co C E
Petroleum Solvents Corp
Rinck-McIlwaine Inc
Rochester Mfg Co
Schauer Mfg Corp

STANDARD MOTOR PRODUCTS INC

STEWART-WARNER CORP

Sun Electric Corp
Syracuse Gauge Co
United States Gauge Div
Wallace & Tiernan Inc
Weidenhoff Corp

VALVES

VALVES, AIR BRAKE *See Brake Emergency Systems & Valves*

VALVES AIR, Two, Three & Four-Way

Adel Precision Products Div
Allen Co A K
Anderson Brass Co
Automatic Switch Co

BENDIX WESTINGHOUSE AUTOMOTIVE AIR BRAKE CO

Buckeye Iron & Brass Works
Hannifin Co
Hunt & Son C B

IMPERIAL BRASS MFG CO

Keller Tool Div
Logansport Machine Co
Mechanical Air Controls Inc
Power Brake Equipment Co
Ross Operating Valve Co
Ruggles-Klingeman Mfg Co
S-P Mfg Corp

A SCHRADER'S SON DIV

Valvair Corp

WAGNER ELECTRIC CORP

WEATHERHEAD CO FORT WAYNE DIV

Westinghouse Air Brake Co. Industrial Prod Div

VALVES, Air Tank Drain

Baker Mfg Co
Champion Pneumatic Machinery Co
Expello Sales Division

GEORGE MFG CO

Hamilton Co L L
Master Equipment Corp
Monroe Standard Inc
National Pneumatic Co
Power Brake Equipment Co
Power Brake Parts Mfg Co
Quincy Compressor Co
Sealco Air Brakes Inc
Thompson Accessories Co

WAGNER ELECTRIC CORP

Westinghouse Air Brake Co. Industrial Products Div
Wilkerson Corp

VALVES, BREAKAWAY (FOR BRAKES) *See Brake Emergency Systems & Valves*

VALVES, Fuel Tank

Adel Precision Products Div
Anderson Brass Co
Automatic Switch Co
Buckeye Iron & Brass Works
Dukes Co
Edelmann & Co E
Hanna Engrg Works
Hoof Products Co

IMPERIAL BRASS MFG CO

Morrison Bros Co
New Products Corp

SKINNER ELECTRIC VALVE DIV

WEATHERHEAD CO FORT WAYNE DIV

VALVES, Hydraulic

EATON MFG CO SAGINAW DIV

SKINNER ELECTRIC VALVE DIV

SUNDSTRAND HYDRAULIC DIV

VICKERS INC

VALVES, Intake & Exhaust

ALLIED AUTOMOTIVE PARTS CO

Aluminum Industries Inc

AMERICAN HAMMERED AUTOMOTIVE DIV

Andrews Parts Mfg Co

EATON MFG CO VALVE DIV

Elgin Machine Works Inc
Ertel Products Co Repl Div
Hoof Products Co

McQUAY-NORRIS MFG CO

Parts Mfg Co
Parts Processing Corp
Perfect Parts Inc
Remco Products Corp

RICH MFG CO

A SCHRADER'S SON DIV

SEALED POWER CORP

THOMPSON PRODUCTS DIV

Toledo Steel Products Div
Wheel Parts & Mfg Co

White Machine Works
Wolverine Gear & Parts Co

VALVES, Safety or Emergency (For Safeguarding Tanks)

BETTS MACHINE CO

Consolidated Ashcroft Hancock Div
McDonald Mfg Co A Y
Morrison Bros
Norgren Co C A
Philadelphia Valve Co
Power Brake Equipment Co
Robinson Engineering & Sales Co
Shand & Jurs Co

VALVES, TIRE *See Tire Valves & Caps*

VALVE CAPS, TIRE *See Tire Valves & Caps*

VALVE GRINDING COMPOUNDS

Carborundum Co
Clover Mfg Co

DURKEE-ATWOOD CO

Gold Eagle Products Co
Hollingshead Corp R M
Pep Mfg Co

PERMATEX CO

Perfex Mfg Co
Zip Abrasive Co

VALVE GUIDES

Aero Mfg & Machinery Co

ALBERTSON & CO INC

ALLIED AUTOMOTIVE PARTS CO

Aluminum Industries Inc
American Auto Parts Co
Beckett Bronze Co
Burd Piston Ring Co
Elgin Machine Works Inc
Ertel Products Co Repl Div
Herbrand Div
Hub City Iron Co
International Parts Corp

McQUAY-NORRIS MFG CO

RICH MFG CORP

SEALED POWER CORP

Standard Automotive Parts Co

THOMPSON PRODUCTS INC

Thor Power Tool Co

TOLEDO STEEL PRODUCTS DIV

Wheel Parts & Mfg Co
White Machine Works
Wolverine Gear & Parts Co
Zoerman-Clark Mfg Co

VALVE GUIDE TOOLS *See Tools, Valve Guide*

VALVE REFACERS

ALBERTSON & CO

BLACK & DECKER MFG CO

CEDAR RAPIDS ENGINEERING CO

HALL-TOLEDO INC

Lee Co K O
Skil Corp

SNAP-ON TOOLS CORP

Thor Power Tool Corp
Tobin-Arp Mfg Co

VAN NORMAN AUTOMOTIVE EQUIPMENT CO.

Wilson Inc K R

VALVE SEAT GRINDER

ALBERTSON & CO

Beard Tool Co

BLACK & DECKER MFG CO

CEDAR RAPIDS ENGINEERING CO

Duro Metal Products Co

HALL-TOLEDO INC

Kent-Moore Organization Inc
Keystone Reamer & Tool Co
Lee Co K O
New Britain Machine Co Hand Tools Div
Skil Corp

SNAP-ON TOOLS CORP

Thor Power Tool Co
United States Electrical Tool Co
Wilson Inc
Winona Tool Mfg Co

VALVE SEAT INSERTS

ALLIED AUTOMOTIVE PARTS CO

Aluminum Industries, Inc
Burd Piston Ring Co

EATON MFG CO SAGINAW DIV

Haynes Stellite Co
Hub City Iron Co
Jambor Tool & Stamping Co
Lee Co K O
Parts Processing Corp
Perfect Parts Inc
Peterson Machine Tool Inc

RICH MFG CORP

A. SCHRADER'S SON DIV

THOMPSON PRODUCTS INC

TOLEDO STEEL PRODUCTS DIV

Versnick Mfg Co
Wausau Motor Parts Co
Wells Inc Martin
White Machnie Works

VALVE SEAT INSTALLING TOOLS *See Tools, Valve Seat Installing*

VALVE SPRINGS

ALLIED AUTOMOTIVE PARTS CO

McQUAY-NORRIS MFG CO

SILVER SEAL PRODUCTS CO

THOMPSON PRODUCTS REPLACEMENT DIV

VALVE SPRING INSERTS

McQUAY-NORRIS MFG CO

SILVER SEAL PRODUCTS CO

For addresses of manufacturers, see the new special section starting on **page 199**

VALVE SPRING TESTERS *See Testers, Valve & Clutch Spring*

VALVE STEM KEYS

ALLIED AUTOMOTIVE PARTS CO

Aluminuum Industries Inc

DORMAN PRODUCTS INC

Ertel Products Corp
Jambor Tool & Stamping Co

McQUAY-NORRIS MFG CO

PERFECT CIRCLE CORP

Preferred Electric & Wire Co
Raymond Mfg Div

RICH MFG CORP

SEALED POWER CORP

THOMPSON PRODUCTS INC

TOLEDO STEEL PRODUCTS DIV

VALVE TAPPETS

ALLIED AUTOMOTIVE PARTS CO

Allied Precision Products
Brown Corp
Chicago Screw Co Div

EATON MFG CO SAGINAW DIV

Ertel Products Corp
General Motors Corp Diesel Equipment Div
Highland Machine Co
Johnson Products Inc

McQUAY-NORRIS MFG CO

THOMPSON PRODUCTS INC

TOLEDO STEEL PRODUCTS DIV

WOHLERT CORP

Wolverine Gear & Parts Co

VEHICLE SIGN *See Signs, Vehicle*

VARNISH REMOVERS *See Paint Removers*

VENTILATING FANS *See Fans, Exhaust*

VENTILATORS, Bus & Truck

Columbus Metal Products Inc

DELTA STAR ELECTRIC DIV

EVANS PRODUCTS CO

Service Products Corp

VENTILATORS, CRANKCASE *See Crankcase Ventilators*

VENTILATORS, Exhaust Gas

Car-Mon Products Co

COOPER TIRE AND RUBBER CO

DURKEE-ATWOOD CO

Engwald Corp
Flint Corp
Harvey Industries
Kent-Moore Organization Inc
Metalwash Machinery Corp
Moffatt Prods Inc
National System of Garage Ventilation Inc

Ventilators to Welders

VENTILATORS, Roof

Columbus Metal Products Co
EVANS PRODUCTS CO
H & P Die & Stamping Co
Metalcraft Mfg Co

VISES, PISTON *See Piston Vises*

VISES, PISTON PIN *See Piston Pin, Vises*

VOLTAGE REGULATORS *See Regulators*

VULCANIZERS, TIRE *See Tire Vulcanizers*

WARNING DEVICES, CARBON MONOXIDE *See Alarms, Carbon Monoxide*

WARNING LIGHTS OR BUZZERS *See Signals*

WASHERS (Fountain Brushes & Mops)

Flour City Brush Co
Fuller Brush Co Industrial Div
K C Fountain Brush Mfg Co
Kleen-Mor Mfg Co
Laitner Brush Co
Master Specialty Co
Melaire Dist Co
Milwaukee Brush Mfg Co
Milwaukee Dustless Brush Co
Moffatt Products Inc
Osrow Products Co
Pacific Coast Brush Co
Ransom Brush Co
Rapids Equipment Co
Tucker Mfg Co
Wilson Inc K R

WASHERS, METAL PARTS *See Cleaning Tanks*

WASHERS, Vehicle

ACME EQUIPMENT CO
Aeroil Products Co
Allied Structural & Plate Corp
Balcrank Inc
Champion Pneumatic Machinery Co
CHOLDUN MFG CORP
CURTIS MFG CO PNEUMATIC DIV
Deming Co
Detrex Chemical Industries Inc
Enterprise Mfg & Chemical Co
Flour City Brush Co
Friend Mfg Co
Hardie Mfg Co
Herculite Protective Fabrics
Hydro-Air Cleaning Systems Inc
Jetomatice Inc
Kelite Corp
LINCOLN ENGINEERING CO DIV
MALSBARY MFG CO
Minit-Man Inc
Moffatt Products Inc
OAKITE PRODUCTS INC
ROSS & WHITE CO
Southwest Pump Co
Sterod Mfg Co General Equipment Div
STRAHMAN VALVES INC
Supreme Equipment Corp
Turco Products Inc
Wayne Pump Co
WEAVER MFG CO
WOHLERT CORP
Zierden Co The

WASHERS, Windshield

Anderson Co
ROBERT BOSCH CORP
DELCO APPLIANCE DIV
The Las-Stik Mfg Co
Santay Corp
Trico Products Corp
UNION CARBIDE CONSUMER PRODUCTS CO DIV

WASHING COMPOUNDS *See Cleaning Compounds*

WATER INJECTORS, GASOLINE ENGINE *See Injectors, Water*

WATER PUMPS

Airtex Automotive Div
ALLIED AUTOMOTIVE PARTS CO
Aluminum Industries Inc
Cloyes Gear & Products Inc
Elgin Machine Works Inc
Ertel Products Repl Div
Gilpak Automotive Products Div
Grapho Products Inc
Imco Mfg & Sales Co
L C Products Inc
Lion Auto Parts & Mfg Co
McQUAY-NORRIS MFG CO
Master Parts Div
Parts Mfg Co
Preferred Electric & Wire Co
Schwitzer-Cummins Co
SEALED POWER CORP
Sterling Aluminum Products Inc
THOMPSON PRODUCTS INC
TOLEDO STEEL PRODUCTS DIV
Warner Machine Products Inc
Wheel Parts & Mfg Co
WOHLERT CORP
Wolverine Gear & Parts Co

WATER TEMPERATURE GAGES

AC SPARK PLUG ELECTRONICS DIV
ELECTRIC AUTOLITE CO
KING-SEELEY CORP
Murphy Mfg Inc
The Partlow Corp
Rochester Mfg Co

For addresses of manufacturers, see the new special section starting on **page 199**

STEWART-WARNER CORP
United States Gauge Div

WAX *See Polish & Wax*

WEATHER STRIPS

American Felt Co
Atlantic India Rubber Works Inc
Auto Vehicle Parts Co
Bridgeport Fabrics Inc
Brockton Stay Co
Buckeye Rubber Products Inc
Carter Co George R
Champ-Items
Chardon Rubber Co
Crotty Corp
Detroit Gasket & Mfg Co
DURKEE-ATWOOD CO
Dutch Brand Div
GENERAL TIRE & RUBBER CO
Globe Rubber Products Corp
GOODRICH INDUSTRIAL PRODUCTS CO B F
Hamilton-Wade Co
Hope Webbing Co
Industrial Rubber Goods Co
Inland Mfg Div General Motors Corp
Johnson Rubber Co
Kaatar Inc
Kravex Mfg Co
Lange Machine Works Henry G
Loock & Co R J
Ohio Rubber Co
Roberts Toledo Rubber Co
Schwartz Rubber Corp
Schlegel Mfg Co
Standard Products Co
Union Welt Corp
UNITED STATES RUBBER CO
Western Felt Works

WEIGHTS, WHEEL BALANCING *See Wheel Balancing Weights*

WELDERS & EQUIPMENT, Electric

Agnew Machine Co
Air Reduction Sales Co
Allis-Chalmers Mfg Co
Birdsell Mfg Co
Caterpillar Tractor Co
Chicago Tool & Engrg Co
Couse Mfg Inc
Federal Machine and Welder Co
Forney Mfg
Guyan Machinery Co
HARNISCHFEGER CORP
Hobart Bros Co
Lee Co K O
Lincoln Electric Co
LINDE CO
Mallory & Co P R
Marquette Mfg Co
Mercury Electric Corp
Metal & Thermit Corp
Mid-States Welder Mfg Co
Miller Electric Mfg Co
Morton Mfg Co
National Cylinder Gas Div
Precision Welder Mfg Co
Royal Arc Industries Inc

IN THE MINDS OF ENGINE MAKERS...

FRAM RANKS *FIRST!*

Over 400 Manufacturers install FRAM Filters as original equipment—more than any other filter! They continually rely on FRAM for outstanding leadership in filter development...for highest quality filter construction...and for a fully-backed guarantee on complete engine protection!

Anyway you look at it...FRAM ranks first!

- More drivers prefer FRAM than any other brand!
- More car makers install FRAM as original equipment!
- More than 400 engine manufacturers specify FRAM —more than any other filter!

FRAM CORPORATION, Providence 16, R.I.

FRAM
OIL · AIR · FUEL · WATER
FILTERS

Welders to Wheel Dollies

WELDERS, Electric—*continued*

Sight Fred Generator Co
Smith Corp A O
Swift Ohio Corp
Taylor-Winfield Corp
Tolman Mfg Co
Trindl Products Ltd
Tweco Products Co
US Electric Welder Corp
Vickers Inc Electric Products Div
Welduction Corp
Wells Inc Martin
Weltronic Co

WESTINGHOUSE ELECTRIC CORP

WELDERS & EQUIPMENT, Oxy-Acetylene

Air Reduction Sales Co
Burdett Oxygen Co of Cleveland Inc
Dockson Co C H

GENERAL DYNAMICS CORP LIQUID CARBONIC DIV

Harris Colorific Co

LINDE CO

Marquette Mfg Co
Modern Engineering Co
National Cylinder Gas Div
National Welding Equipment Co
Sight Feed Generator Co
Smith Welding Equipment Corp
Taylor-Winfield Corp
Tolman Mfg Co
Victory Equipment Co

WELDING CABLES

Air Reduction Sales Co

AMERICAN STEEL & WIRE CO

BELDEN MFG CO

Burdett Oxygen Co of Cleveland Inc
Crescent Co
General Cable Co
Lincoln Electric Co
National Cylinder Gas Div
Roebling's Sons Corp John A
Sittler Corp
Tweco Corp
United Metal Craft Co

WELDING COMPOUNDS

Dolphin Paint & Varnish Co
Ensign Products Co
Kelite Corp
Krembs & Co

LINDE CO

Marquette Mfg Co
Midland Paint & Varnish Co
Wayne Chemical Products Co
Wolfe-Kote Co

WELDING HOSE *See Hose, Welding*

WELDING RODS

Acme Electric Welder Co
Air Reduction Sales Co
Allis-Chalmers Mfg Co
Alloy Rods Co
All-State Welding Alloys Co

ALUMINUM CO OF AMERICA

American Brass Co

AMERICAN STEEL & WIRE DIV

Ampco Metal Inc
Atlantic Steel Co
Bridgeport Brass Co
Burdett Oxygen Co of Cleveland Inc
Colonial Alloys Co
Crucible Steel Co of America
Dockson Corp
Eutectic Welding Alloys Corp
Forney Mfg Co

HARNISCHFEGER CORP

Haynes Stellite Co
Hobart Bros Co
International Nickel Co
Krembs & Co
Lincoln Electric Co

LINDE CO

McKay Co
Mallory & Co P R
Marquette Mfg Co
Metal & Thermit Corp
Miller Electric Mfg Co
Mueller Brass Co
National Cylinder Gas Div
Page Steel & Wire Div
Revere Copper and Brass Inc
Sight Feed Generator Co
Smith Corp A A
Speer Carbon Co
Titan Metal Mfg Co
Wall Colmonoy Corp
Welding Equipment & Supply Co

WESTINGHOUSE ELECTRIC CO

WHEELS

WHEELS, Vehicle

ALUMINUM CO OF AMERICA

BUDD CO WHEEL DIV

CLARK EQUIPMENT CO

DIFFERENTIAL DUAL WHEEL DIV

Eastern Malleable Iron Co

ERIE MALLEABLE IRON CO

FIRESTONE STEEL PRODUCTS CO DIV

French & Hecht Div
Geneva Metal Wheel Co

GOODYEAR TIRE & RUBBER CO

GUNITE FOUNDRIES CORP

Homan & Co
Hutchens & Son Metal Products Inc
Kelsey-Hayes Co

MOTOR WHEEL CORP

Permold Co

WHEEL ALIGNERS *See Alignment Equipment (Front End)*

For addresses of manufacturers, see the new special section starting on **page 199**

WHEEL BALANCING MACHINES

ALEMITE DIV

Beacon Corp
John Bean Div
Bear Mfg Co
Bee-Line Co
Bennett-Feragen Inc
Big Four Industries Inc
Coats Co
Hemmeter Corp
Holmes Co Ernest
Hunter Engineering Co
Keel & Co
Lempco Products Inc
Manbee Equipment Div
Micro-Poise Engrg & Sales Co
Monarch Mfg Co
Morgan Wheel & Equipment Co
Schildmeier Co H C
Speedmaster Ltd

WEAVER MFG CO

WHEEL BALANCING WEIGHTS

Amplex Engrg Co
John Bean Div
Bear Mfg Co
Bender Equipment Co J H
Bennett-Feragen
Big Four Industries Inc
Binder Equipment Co J H
Hunter Engrg Co
Hunter Products Co
Lempco Products Inc
Lucas Mfg Corp
Manbee Equipment Div
Perfect Equipment Corp
Pouell Mfg Co
Snugl Wheel Weight Mfg Co Div
Turner Mfg Co

WEAVER MFG CO

Wheel Weights Inc

WHEEL CHOCKS

Aldon Co
Calumet Steel Castings Corp
Ernest Holmes Co
Steinwach Safety Supply

WHEEL CYLINDERS *See Brakes, Hydraulic Systems*

WHEEL DOLLIES

ALEXANDER-TAGG INDUSTRIES INC

AUTO SPECIALTIES MFG CO

Bennett-Feragen
Bernard Franklin Co

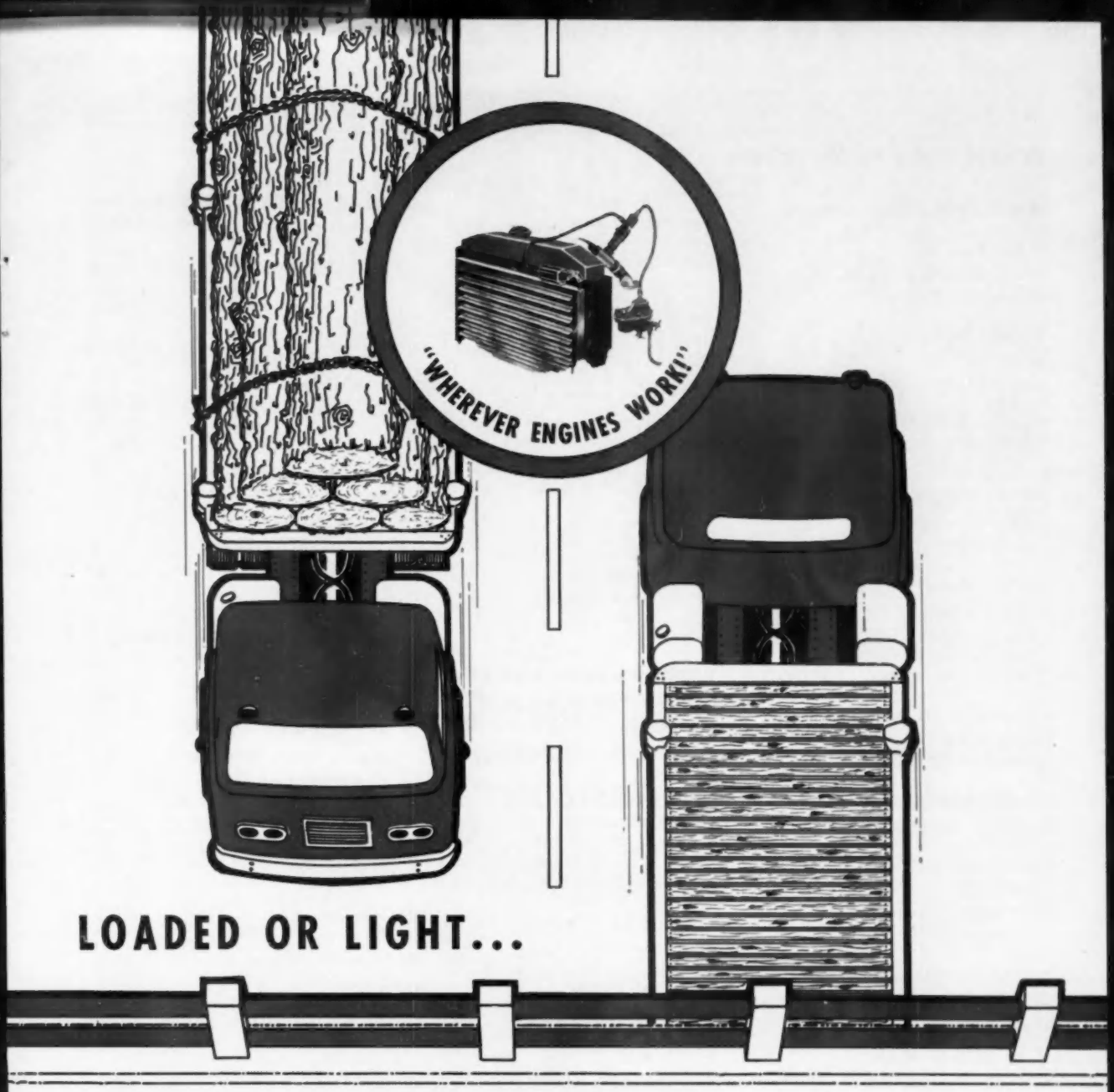
BLACKHAWK AUTOMOTIVE DIV

Cam Tool Co
Clark-Feather Mfg Co
Dixie Tallyho Inc
Geneva Metal Wheel Co

GLOBE HOIST CO

KEN-TOOL MFG CO

Immel Co
Melooz Mfg Co
Rush Mfg Co E S



KYSOR HOLDS ENGINE TEMPERATURE UNIFORM!

Engines *without* shutters have shown simultaneous temperature *differentials of over 100°* between coolant outlet and inlet. But with KYSOR Automatic Radiator shutters controlling the amount of air passing through the radiator and over the engine, the temperature of the engine *can be controlled within 5°* (plus or minus) of the selected shutterstat setting.

This same uniform temperature control holds constant on up-grade, down-grade, loaded or empty and in any ambient temperature.

KYSOR shutters will last the life of the truck . . . yet pay for themselves in less than a year. Include KYSOR temperature control benefits for *your* trucks.

GET THESE BENEFITS OF KYSOR UNIFORM TEMPERATURE:

- **Near elimination of sludge.**
- **Great reduction of cracked blocks and heads.**
- **Increased fuel and lube oil mileage.**
- **Much longer engine life.**
- **Less down time.**
- **Increased performance.**

SPECIFY...

KYSOR automatic radiator shutters

FIELD APPLICATIONS AVAILABLE • KYSOR HEATER CO., CADILLAC, MICH.

Wheel Hubs to Wreckers

WHEEL DOLLIES—*continued*

Schidmeier Co H C
United Parts Inc
WEAVER MFG CO
Whitewater Mfg Co

WHEEL HUBS

BUDD CO
DAYTON STEEL FOUNDRY CO THE
Hutchens & Son Metal Products Inc
Kay-Brunner Steel Products Inc
Kelly Mfg Co
Kelsey-Hayes Co
MOTOR WHEEL CORP

WHEEL PULLERS *See Pullers, Bearing Gear & Wheel*

WHEEL RIMS

BUDD CO THE
Cleveland Welding Div
Firestone Steel Products Co
FIRESTONE STEEL PRODUCTS CO
GOODYEAR TIRE & RUBBER CO
Kelsey-Hayes Co
MOTOR WHEEL CORP

WHEEL SPACERS

DAYTON STEEL FOUNDRY CO THE
GOODYEAR TIRE & RUBBER CO
Lambert Inc
OSHKOSH MOTOR TRUCK INC
TRANSIT PARTS CO

WHEEL STRAIGHTENERS

BUDD CO WHEEL DIV
Bee-Line Co
Schildmeier Co H C
R V Jack Corp
Reliable Jack Div
Toledo Pressed Steel Co
Unit Mfg Co
Wagner Mfg Co
Walker Mfg Co of Wis
WEAVER MFG CO
Wilson Inc K R

WHEELS, FIFTH *See Fifth Wheels*

WHEEL STUDS & NUTS

BUDD CO WHEEL DIV
DORMAN PRODUCTS INC
Kelsey-Hayes Wheel Co
MOTOR WHEEL CORP
TRANSIT PARTS CO

WINCHES, Truck

Adams Engineering Co
Air Cargo Equipment Co
Beebe Bros
Braden Winch Co
Burtchaell Heating Co
Cam Tool Co Inc
COLLINS & ASSOCIATES INC
Douglas Motors Inc
Fulton Co
Gar Wood Industries Inc
HIGHWAY TRAILER CO
Holan Corp
Koenig Iron Works Inc
Little Giant Products Inc
M-B Corp
Maday Body & Equip Co
Manley Div
Ohio Hoist Mfg Co
Pacific Car & Foundry Co
Ramsey Winch Mfg Co
Round & Son David
Sasgen Derrick Co
Silent Hoist & Crane Co
Stimmel Winch Co
TEC DIV HEIL CO
TULSA WINCH DIV
Ven Corp

WINDOWS, Truck, Sliding Rear

BARBER'S GLASS & MFG CO

WINDSHIELD FANS *See Fans, Defrosting*

WINDSHIELD SEALING COMPOUNDS

Behr-Manning Div
Dolphin Paint & Varnish Co
DU PONT DE NEMOURS & CO E I FINISHES DIV
DURKEE-ATWOOD CO
Krylon Inc
MINNESOTA MINING & MFG CO
PERMATEX CO
Radiator Specialty Co
Woodhill Chemical Sales Corp

WINDSHIELD WIPERS, Air

National Pneumatic Co
SPRAGUE DEVICES INC
Trico Products Corp

WINDSHIELD WIPERS, Electric

American Bosch Div
BOSCH CORP ROBERT
DELCO APPLIANCE DIV
ELECTRIC AUTOLITE CO
Electric Service Works Delta Star Electric Div
Signal Mfg Co

For addresses of manufacturers, see the new special section starting on **page 199**

WINDSHIELD WIPERS, Vacuum

Campion Pneumatic Machinery Co
Trico Products Corp

WINDSHIELD WIPER TUBING *See Hose, Vacuum*

WIRE, INSULATED (For Lighting)

(See also Ignition Cable & Battery Cable)

AUTAC INC
BELDEN MFG CO
ELECTRIC AUTOLITE CO
PACKARD ELECTRIC DIV
SIGNAL-STAT CORP

WIRE TERMINALS

AC SPARK PLUG ELECTRONICS DIV
AMP Inc
Ark-Les Switch Corp
Barcy-Nicholson Co
BELDEN MFG CO
Burndy Corp Omaton Div
COLE-HERSEE CO
Douglas Mfg Div
ELECTRIC AUTOLITE CO
Electrix Terminals & Connectors Inc
Hill Nut Co
Kem Mfg Co
Loock & Co R J
Machined Parts Corp
Monarch Insulated Wire Co
Motor Master Products Corp
National Ignition Mfg Co
Packard Electric Div
Patton-MacGuyer Co
Pollak Corp Joseph
Preferred Electric & Wire Co
Rajah Co
Realflex Products Co
Richards Mfg Co
Shakeproof Div
Sherman Mfg Co H B
STANDARD MOTOR PRODUCTS INC
Stimpson Co Edwin B
Thompson-Bremer & Co
Triple-A-Specialty Co
Vaco Products Co
Victor Instrument Mfg Co
Wade Electric Products Co
Walker Bros
Whitaker Cable Corp
Zierick Mfg Corp

WRECKERS

COLLINS & ASSOCIATES INC
Holmes Co Ernest
Maday Body & Equipment Co Manley Div
WATSON CO H S

The Thompson Powerforged—

a new, stronger aluminum piston for cars and light trucks

Here's a piston made to match the power of today's engines . . . a piston so strong it is being used extensively for aircraft and racing cars. An exclusive Thompson process literally rams aluminum slugs into piston forms with tremendous force. This increases metal density which gives the finished piston up to 70% greater strength!

It's forged—not cast

. . . up to 70% stronger than cast aluminum pistons
. . . furnished tin-plated and in finished sizes

Note the exclusive grain structure that provides greater strength . . . dissipates heat faster . . . adds more miles of trouble-free operation.

The extra strength is gained without adding weight. Thompson's Powerforged pistons are the same weight as cast aluminum pistons—will balance perfectly when used as replacements.

For longer, trouble-free piston life, get the piston that is especially designed to meet the greater stresses developed in new, more powerful high compression engines. Get Thompson's new POWERFORGED piston!

Thompson Products
Replacement Division
Thompson Ramo Wooldridge Inc.
Cleveland 3, Ohio

Wrenches

WRENCHES, Portable Electric

ALBERTSON & CO
BLACK & DECKER MFG CO
CHICAGO PNEUMATIC TOOL CO
INGERSOLL-RAND CO
Millers Falls Co
REMINGTON ARMS CO
Skil Corp
SNAP-ON TOOLS CORP
Speed Way Mfg Co
Thor Power Tool Co

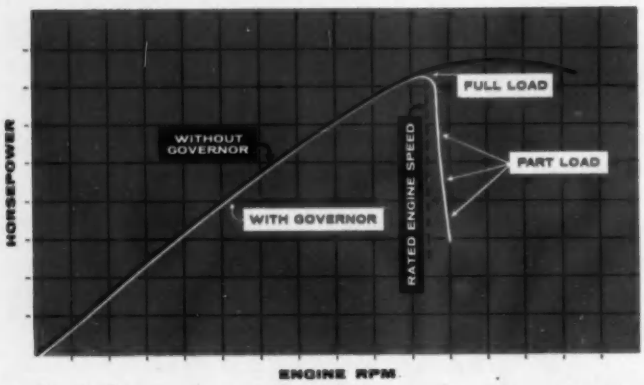
WRENCHES, Portable Pneumatic

ALBERTSON & CO
ARO EQUIPMENT CORP
Buckeye Tools Corp
CHICAGO PNEUMATIC TOOL CO
Cleco Div
Gardner-Denver Co
INGERSOLL-RAND CO
Master Pneumatic Tool Co
Rotor Tool Co
SNAP-ON TOOLS CORP
Thor Power Tool Co

WRENCHES, TIRE *See Tire Tools*
WRENCHES, TORQUE *See Torque Wrenches*
WRIST PINS *See Piston Pins*

DOES AN ENGINE GOVERNOR REDUCE HORSEPOWER?

Let's Be Practical



A Handy Governor has no effect whatever on horsepower at engine speeds below the governor setting. Up to that point, vehicle acceleration and tractive effort are the same as without a governor.

If your governor is set at the engine's rated speed, you can't get any more horsepower than is developed at that speed. Without a governor, you might increase horsepower a little by overspeeding the engine beyond its safe rating. But, as you know, the higher your engine speed, the more it costs you for engine maintenance, the oftener your vehicle has to go into the shop and the sooner that engine has to be replaced.

Now Then! How much is that extra margin of horsepower and speed worth to you? And what about all the other cost penalties involved?

It's your decision.

KS

KING-SEELEY CORPORATION
ANN ARBOR, MICHIGAN
WORLD'S LARGEST MANUFACTURERS OF AUTOMOTIVE GOVERNORS

8396

Spector Tells of Merger Benefits

W. STANHAUS, president of Spector Freight System, says truck fleet mergers have led to improved service for shippers and more economical operations for freight lines.

Stanhaus, addressing the recent Midwest Management Conference of the Society of the Plastics Industry in Chicago, said that mergers or acquisitions have these basic values....

- They enable diversification of operations, with competitive advantages and lessening of vulnerability.
- The broader scope of operations they offer provides a better ultimate service package to the general public.
- They provide buying power.
- They enable mechanization of procedures for volume operations.
- They provide more dollars to work with—for example, in research and development and management training and development.

In considering mergers or acquisitions, corporate objectives — both long and short range—should first be identified, he stated. "Good management is the prime requisite. Proper organization is the key. It is important to have a master plan, make a projection of this plan, and measure all moves and actual performances against this projection," he said.

Stanhaus warned the group, however, that mergers have built-in drawbacks, too. For example....

- Size creates problems and costs. Capacity of individuals becomes a problem with increased responsibilities. More must be spent to maintain touch with and control of the business.
- Mergers can entail a loss of business ranging from 5 to 20 per cent of the acquired volume where duplication of facilities is concerned.

CCJ's

FLEET BUYERS' DIRECTORY 1960

MANUFACTURERS ADDRESSES

This new section can save you time. In it are complete addresses of the makers of the products listed beginning on page 79. They're arranged alphabetically by the name of the supplier. When you already know who makes what you want, you don't have to go through the product listings. Just look up their addresses here. In many cases, you'll also find a list of local distributors or sales branches. Names printed ALL IN CAPITALS have advertised their products in Commercial Car Journal in the past year.

A

ABC Mfg Co 340 N Front St Philadelphia 6 Pa
ACF Body Corp 4400 Clayton Ave St Louis 10 Mo
AC SPARK PLUG ELECTRONICS DIV OF GENERAL MOTORS CORP 1300 N Dort Highway Flint 2 Mich
A L C CO 646 Oak St Medina Ohio
ALF Body Corp 4400 Clayton Ave St Louis 10 Mo
AP Parts Corp AP Bldg 1801 Spielbusch Ave Toledo 1 Ohio
ARA Mfg Co P O Box 685 Grand Prairie Texas
Acadia Div Western Felt Works 4115 W Ogden Ave Chicago 23 Ill
Accurate Parts Mfg Co 12435 Euclid Ave Cleveland 6 Ohio
Accurate Products Inc 135 N Spring St Indianapolis Ind
Accurate Re-Nu Clutch Div Mar Pro Inc 168 N Michigan Ave Chicago 1 Ill
Ace Iron Works 510 Pershing Rd Chicago 9 Ill
Ace Products Co 1820 N 12th St Toledo 1 Ohio
Ace Rubber Products Inc 100 Beech St Akron Ohio
Ace Trailer & Equipment Co Div Reliable Automotive Co H & San Joaquin Sts Fresno Cal
Acheson Colloids Co 1925 Washington Ave Port Huron Mich
Acme Air Appliance Co 205 Newman St Hackensack N J
Acme Backing Corp Canal & Ludlow Sts Stamford Conn
Acme Electric Corp Cuba N Y
Acme Electric Welder Co 2618 Fruitland Ave Los Angeles 58 Calif
ACME EQUIPMENT INC Central Trust Bldg Altoona Pa
Acme Industrial Co 200 N Laflin St Chicago 7 Ill
Acme Iron Works (Ingram P O Box 2020 San Antonio Texas
Acme Mfg Co 1406 Agnes St Kansas City 27 Mo
Acme Mfg & Gasket Co 738 N 41st St Philadelphia 4 Pa
Acme Newport Steel Co Ninth & Lowell Sts Newport Ky
Acme Rubber Mfg Co 115 Meade St Trenton N J
Acme Specialty Mfg Co 2298 Smead Ave Toledo 6 Ohio
Acme Steel Co 130 5th St & Perry Ave Chicago 27 Ill
Acme Quality Paints Inc 8250 St Aubin Ave Detroit 11 Mich
ACROLITE PRODUCTS INC Rahway N J
Acorn Mfg Co 33rd & Reed Sts Erie Pa
Acromark Co 9 Morrell St Elizabeth 4 N J
Acoustica Associates Inc Shore Rd Glenwood Landing N Y
Actane Chemical Co Philadelphia 8 Pa
ACTUATOR PRODUCTS CORP 26 Nashua St Woburn Mass
Adams Grease Gun Corp 88-92 N First St Brooklyn 11 N Y
Adams Engineering Co 31711 Solon Rd Solon Ohio
Adams & Westlake Co 1019 N Michigan St Elkhart Ind
Adel Precision Products Div of General Metals Corp 1444 Washington Ave Huntington 4 W Va
Adhere Inc 1220 Maple Ave Los Angeles 15 Cal
Adjustable Clamp Co 425 N Ashland Ave Chicago 22 Ill
Advance Century Mfg Co P O Box 781 Greenville S C

Product listings begin on page 79

"Jest a dang minute, here. The picture in the catalog had a girl sittin' in it—that's why I ordered it!"

Advance Felt & Gasket Co 663 W Washington Blvd Chicago Ill
Advanced Mfg Inc 738 W 17th St Costa Mesa Cal
Advertising Distributors Inc 5046 Shaw Ave St Louis 10 Mo
Aero Canvas Products 618 W Merrill St Indianapolis 25 Ind
Aero Mfg & Machinery Co 2724 9th St Muskegon Heights Mich
Aeroil Products Co 69 Wesley St South Hackensack N J
Aero Motive Mfg Co 1303 Alcott St Kalamazoo 24 Mich
AEROBILT BODIES INC DIV GRUMAN AIRCRAFT CO Athens N Y
Aerol Co 1731 Workmen St Los Angeles 31 Cal
AEROQUIP CORP 300 South East Ave Jackson Mich
Aero Safety Equipment Co Los Angeles Calif
Aetna Ball & Roller Bearing Co Div of Parkersburg-Aetna Corp 4600 Schubert Ave Chicago 39 Ill
Agner Simplex Co 106 Pine St Burlington Wis
Agnew Machine Co 121 S Main St Milford Mich
Ahlberg Bearing Co 3025 W 47th St Chicago 32 Ill
Ainsworth Precision Castings Div of Harsco Corp 3200 Guardian Bldg Detroit 26 Mich
Air Brake Accessories Inc 250 N Western Ave Chicago 12 Ill
Airbrake Accessories Inc 155 N Ada St Chicago 7 Ill
Aircapitol Mfg Inc 1618 S Mead St Wichita Kansas
Air Cargo Equipment Co 1121 E Colorado St Glendale Calif
Aircooled Motors Inc Liverpool Rd Syracuse 8 N Y
Aircraft Fitting Co 1400 E 30th St Cleveland 14 Ohio
Aircraft & Automotive Prods Inc 2501 S West St Wichita Kan
Aircraft Specialties Inc Howard & Higley St Lapeer Mich
Air Hydraulic Inc 13106 Broadway Ave Cleveland 23 Ohio
Air Hydraulics Inc 811 Belden St Jackson Mich
Air Induction Corp 122 W 30th St New York 1 N Y
Air Lift Co 2328 W Main St Lansing Mich
Air Maze Corp 25000 Miles Rd Cleveland 28 Ohio
Air-O-Matic Power Steer Corp 1478 Davenport Ave Cleveland 14 Ohio
Air Reduction Sales Co Socony-Mobile Bldg 150 E 42nd St New York 17 N Y
Air-Speed Tool Co 1502 W Slawson Ave Los Angeles 47 Calif

SIOUX TOOLS

Albertson & Co., Inc.
Territory Managers

ALBANY—F. D. Christie, 16 Clarendon Rd. Call 8-0973

ATLANTA—W. G. Blankinship, 2878 N. Hills Dr. N. E. CEdar 3-2172

CLEVELAND—F. E. Akerberg, 1466 Rockland Ave., Rocky River 16, Ohio. EDison 1-6774

CHICAGO—A. T. Cornish, Box 186, Naperville, Ill. Call 1929

DALLAS—R. E. Lindberg, 5852 Glendora Ave. FOrest 8-7961

DENVER—K. E. Lagerberg, 2121 Routt Rd. BElmont 7-5105

DETROIT—A. L. Fisher, 2289 Oakway Dr., Pontiac, Mich. FEderal 5-4641

GREENSBORO—W. D. Johnson, 1905 Rolling Rd. BRoadway 2-7932

HARRISBURG—E. E. Morrison, 111 No. 30th St., Camp Hill, Pa. REgent 7-9514

HOUSTON—W. E. Ebrecht, 6319 Overdale. MIssion 9-2390

INDIANAPOLIS—H. D. Porterfield, 4425 Fairhope Dr. STate 6-9172

KANSAS CITY—E. H. Tott, 8601 W. 68th Terrace, Merriam, Kan. HEdrick 2-3769

LEXINGTON—M. J. Robbins, 299 Lafayette Dr. Call 7-1481

LOS ANGELES—C. C. Beebe, 2058 W. 78th Pl. PLeasant 3-0941

LOS ANGELES—N. A. Post, 10308 S. Julius Ave., Downey, Calif. TOpax 2-6446

MEMPHIS—L. E. Bray, 25 Shepherd Lane. MUtual 3-3412

MILWAUKEE—F. R. Knudsen, 2666 No. Humboldt. LOcust 2-9004.

MINNEAPOLIS—H. L. Jensen, 4721 W. 40th St. WAlnut 6-3372

NEW YORK—T. F. Ray, 4 Poplar Rd., Ridgefield, Conn. IDlewood 8-8004

OAKLAND—J. M. Cornish, 400 Perkins St. GLencourt 2-4303

OKLAHOMA CITY—Roy Hatlon, 7806 N.W. 23rd St. WHitney 7-8492

OMAHA—H. E. Curtis, 301 S. 68th Ave. GLendale 2546

OMAHA—K. C. Hitt, 522 So. Pine Valley, Nebr. Call 4561

PHILADELPHIA—C. W. Holmes, 275 Windermere Ave., Lansdowne, Pa. MAdison 3-7219

SAN FRANCISCO—H. W. Tott, 2579 Humbolt Dr., San Leandro, Calif. ELgin 7-2444

SEATTLE—A. E. Mjoen, 3312 E. Republican. EAst 3-8767

SIOUX FALLS—H. T. Davies, 1216 So. Lyndale. Call 8-6210

SPOKANE—Dale Thompson, W. 1423 Glass, FAirfax 5-0493

SPRINGFIELD—R. O. Poulsen, 2448 S. State St. Call 8-6997

TONAWANDA, N. Y.—R. J. Utecht, 2357 Parker Blvd. EVergreen 0130

See Sioux Tool Advertisement page 23

Airtemp to American

Airtemp Div Chrysler Corp 1610 Webster St Dayton 1 Ohio
Airtex Automotive Div of Airtex Products Inc Fairfield Ill
Ajax Mfg Co of Wis 1201 Michigan Blvd Racine Wis
Akro-Mils Inc 820 E Market St Akron 5 Ohio
Akron Paint & Varnish Co 1390 Firestone Parkway Akron 1 Ohio
ALBERTSON & CO INC 3100 Lowell Ave Sioux City 3 Iowa

←

Alden Products Co 150 N Main St Brockton 64 Mass
Aldridge Chemical Oils Inc 3401 W 140th St —Cleveland 11 Ohio
Aldon Co 3340 Ravenswood Ave Chicago Ill
ALEMITE DIV STEWART WARNER CORP 1826 Diversey Pkwy Chicago 14 Ill
ALEXANDER TAGG INDUSTRIES INC Jacksonville Rd & Summit Ave Hatboro Pa
Al-Fin Div Fairchild Engine & Airplane Corp Deer Park N Y
Allegheny Body Co 1633 N 6th St Philadelphia 22 Pa
Allen Electric & Equipment Co 2101 N Pitcher St Kalamazoo 13F Mich
R W Allen Co 965 Center St San Carlos Calif
Allen Industrial Products Inc 300 Pilgrim Rd Menomonee Falls Wis
Allen Mfg Co Drawer 570 Hartford 1 Conn
Allen Mfg Co 566 W Lake St Chicago Ill
Allen's Cargo Batteries 622 Wall St Joplin Mo
Allgaier Earl Arlington Va
ALLIED AUTOMOTIVE PARTS CO 1450 E 19th St Indianapolis 7 Ind
Allied Decals Inc 20707 Miles Ave Cleveland 28 Ohio
Allied Motor Parts Co Detroit 1 Mich
Allied Precision Products 600 E San Christopher Drive Dunedin Fla
Allis-Chalmers Mfg Co Milwaukee 1 Wis
Allis-Chalmers Mfg Co Engine Material Handling Div 1135 S 70th St Milwaukee 1 Wis
ALLISON DIV GENERAL MOTORS CORP 4700 W 10th St Indianapolis 6 Ind
Allmetal Screw Products Co 821 Stewart Ave Garden City N Y
Alloy Mfg Co 3307 S Shields Ave Chicago 16 Ill
Alloy Rods Co W Market St York Pa
All-Power Mfg Co 400 Roosevelt Ave Montebello Calif
All-State Welding Alloys Co 249 Ferris Ave White Plains N Y
Allube Corp 928 Allen Ave Glendale 1 Calif
Allyn Mfg Co 1758 W Wellington Ave Chicago 13 Ill
Almquist Engineering Co Milford Pa
Alofs Mfg Co 345 32 St S W Grand Rapids 8 Mich
Alondra Inc 959 Crenshaw Blvd Los Angeles 19 Calif
Alox Corp Buffalo Ave & Iroquois St Niagara Falls N Y
Alpha Metals Inc 56 Water St Jersey City N J
Al-Power Mfg Co 400 Roosevelt Ave Montebello Calif
Alsol Products Co 123 Coit St Irvington N J
Aluminum Alloys Corp 6650 Walton St Detroit 10 Mich
Aluminum Body Corp 1600 W Washington Blvd Montebello Calif
ALUMINUM CO OF AMERICA 1501 Alcoa Bldg Pittsburgh 19 Pa
Aluminum Industries Inc 3670 Werk Rd Cincinnati 11 Ohio
Alvey-Ferguson Co 3131 Disney St Oakley Cincinnati 9 Ohio
Amchem Products Inc Brookside Ave & Reading R R Ambler Pa
Ameratron Inc Div of Textron-America 1407 Broadway New York N Y
AMALIE DIV L SONNEBORN SONS 300 Fourth Ave New York N Y
American Abrasive Metals Co 460 Coit St Irvington 11 N J
American Air Compressor Corp Dell Ave & 48th St North Bergen N J
American Automatic Devices Co Throop St Chicago 7 Ill
American Auto Parts Co 919 Bonham Ave Columbus 3 Ohio
American Ball Bearing Co 70 Flushing Ave Brooklyn 1 N Y
American Battery Co 1520 McGavock St Nashville 3 Tenn
American Body & Equipment Co P O Box 3107 Dallas 21 Texas
American Body & Trailer Inc P O Box 1150 Oklahoma City 1 Okla
American Bosch Div American Bosch Arma Corp 3664 Main St Springfield 7 Mass
AMERICAN BRAKEBLOK DIV AMERICAN BRAKE SHOE CO 900 W Maple Rd Troy Mich
American Brass Co 414 Meadow St Waterbury 20 Conn
American Brass Co French Small Tube Div 128 Robins St Waterbury 20 Conn
American Brass Co Waterbury Brass Goods Branch 26 Crane St Waterbury 20 Conn
American Broach & Machine Div of Sundstrand Machine Tool Co 415 W Huron St Ann Arbor Mich
AMERICAN CHAIN & CABLE CO AUTOMOTIVE & AIRCRAFT DIV 601 Stephenson Bldg Detroit 2 Mich
AMERICAN CHAIN DIV AMERICAN CHAIN & CABLE CO 454 E Princess St York Pa
American Coleman Co Littleton Colo
American Coupling Corp 2335 Goodrich St Ferndale 20 Mich
American Cyanamid Co 30 Rockefeller Plaza New York 20 N Y
American Decalcomania Co Inc 4326 5th Ave Chicago 24 Ill
American Dockbridge Inc 235 W Oklahoma Ave Milwaukee 1 Wis
American Eagle Perma-Gap Spark Plug Corp 8655 Miltary St Detroit 4 Mich
American Electrical Heater Co Woodward Cass & Burroughs Aves Detroit 2 Mich
American Electric Cable Co 181 Appleton St Holyoke Mass
American Engineering Co Wheatsheaf Lane & Sepviva Street Philadelphia 37 Pa
American Felt Co Glenville Conn
American Fire Apparatus Co Golden Ave at Main St Battle Creek Mich
American Forging & Socket Co P O Box 210 Pontiac Mich
American Gas Machine Co Div of Queen Stove Works 505 Front St Albert Lea Minn
American Generator & Armature Co 6100 W Grand Ave Chicago 39 Ill
AMERICAN GREASE STICK CO Muskegon Mich
American Hair & Felt Co 322 Merchandise Mart Chicago Ill
AMERICAN HAMMERED AUTOMOTIVE REPLACEMENT DIV SEALED POWER CORP ACCURALITE DIV 2001 Sanford St Muskegon Mich
American Hard Rubber Co Div Amerace Corp Ace Rd Butler N J
American Hoist & Derrick 2511 W Taylor St Fort Wayne 1 Ind
American Instrument Co 8030 Georgia Ave Silver Spring Md
American Insulator Corp New Freedom Pa
American Lacquer Solvents Co Perkiomen Junction Phoenixville Pa
American La France-Foamite Corp 100 E La France St Elmira N Y
American Liquid Gas Corp 1109 Santa Fe Ave Los Angeles 21 Calif
American Logging Tool Corp 4203 Union Blvd St Louis 15 Mo
American Machine Works 1027 W Broadway Spokane Wash
American Marc Inc 1601 W Florence Ave Inglewood Calif
American Mat Corp 2411 Adams St Toledo 2 Ohio
American Metal Products Co 5959 Linsdale Ave Detroit 4 Mich
American Mfg Co P O Box 989 Montgomery 2 Ala
American Monorail Co 13107 Athens Ave Cleveland 7 Ohio
AMERICAN MOTORS CORP AUTOMOTIVE DIV (Rambler) Detroit 32 Mich
American Motor Products Co Fond du Lac Wis
American Nickeloid Co Peru 34 Ill
American Octanator Corp 549 Reservoir St Cranston R I
American Oil Co American Bldg Baltimore Md
American Paint Co 902 Larabee St Chicago 10 Ill
American Platinum Works N J R R Ave Newark 5 N J
American Pulley Co 4200 Wissahickon Ave Philadelphia 29 Pa
American Safety Tank Co 3937 Main St Kansas City 11 Mo
American Sand-Banum Co 1 N Merrick Ave Merrick N Y
American Sealants Co 103 Woodbine St Hartford 6 Conn
AMERICAN SEATING CO 9th St & Broadway Grand Rapids Mich
American Stamping Co 310 E Burnham St Battle Creek Mich

Product listings begin on page 79

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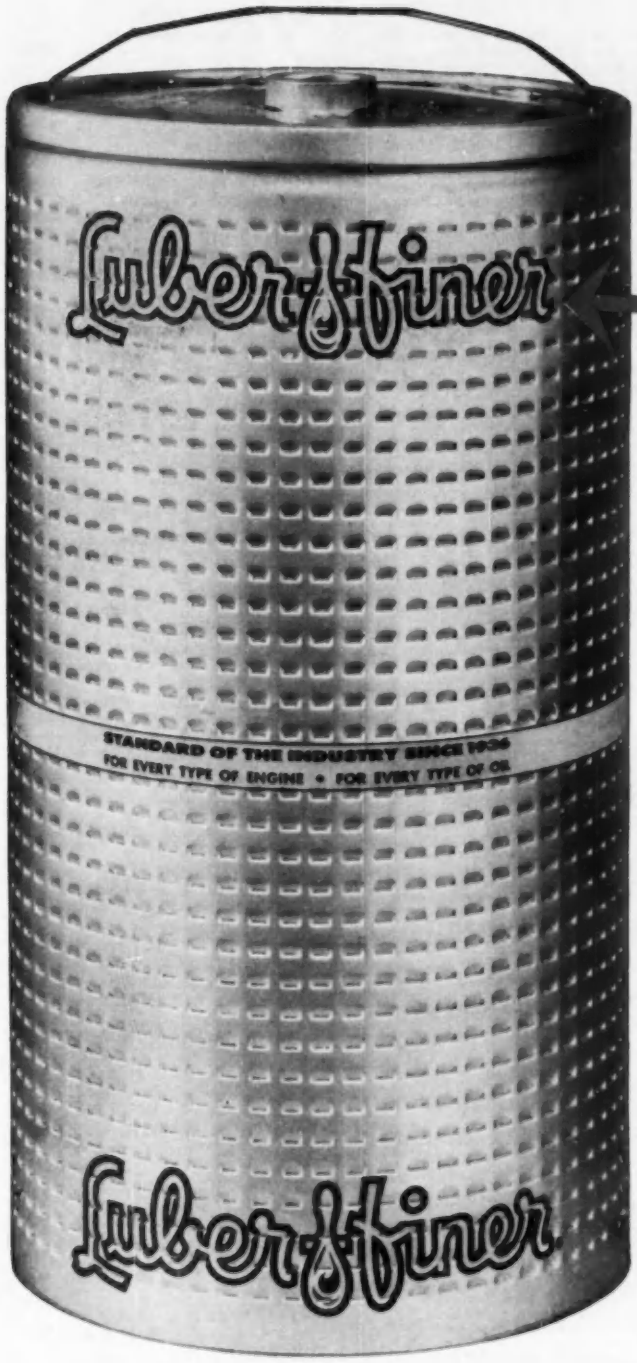
AMERICAN STEEL & WIRE CO Rockefeller Bldg Cleveland 13 Ohio
AMERICAN STEEL FOUNDRIES HAMMOND DIV Hohman Ave & Hoffman St Hammond Ind
American Steel Works 1211 W 27th Kansas City Mo
American Tape Co 4058 Beaufait Ave Detroit 7 Mich
American Trailer & Mfg Co 12222 S Woodruff Ave Downey Calif
American Truck Body Co Martinsville Va
American Varnish Co 1138 North Branch St Chicago 22 Ill
Ames Co B C 12 Ames St Waltham 54 Mass
Amesbury Metal Products Co 39 Oakland St Amesbury Mass
Amesbury Seat Mfg Co 200 S River St Ypsilanti Mich
Ammco Tools Inc 2100 Commonwealth Ave North Chicago Ill
AMP Inc Eisenhower Blvd Harrisburg Pa
Ampco Metal Inc 1737 S 38th St Milwaukee 15 Wis
Amplex Engineering Co 2510 Grand Ave New Castle Ind
Am-Plus Storage Battery Co 1000 W 94th St Chicago 20 Ill
Amseco Inc 145 S Monterey Ave Villa Park Ill
Amthor Testing Instrument Co 45 Van Sinderen Ave Brooklyn 7 N Y
Anaconda Div American Brass Co 698 S Main St Waterbury 20 Conn
Anchor Coupling Co 342 N 4th St Libertyville Ill
Anchor Packing Co 401 N Broad St Philadelphia 8 Pa
Anchor Post Products Inc 6500 Baltimore 24 Md
Anchor Rubber Products Div of Anchor Industries Inc 1725 London Rd Cleveland 12 Ohio
Anderson Brass Co 100 S Campbell Ave Detroit 9 Mich
Anderson Bros Mfg Co 1907 Kiswaukee St Rockford Ill
Anderson Co 1075 Grant St Gary 40 Ind
Anderson Co O L 1347 E Fort St Detroit 7 Mich
Anderson Pritchard Oil Corp 1000 Liberty Bank Bldg Oklahoma City 2 Ohio
Andrew Parts Mfg Co 32-70 31st Long Island City 6 N Y
Andrews Bearing Co P O Box 570 Spartanburg S C
Andrews Industries Inc 7901 Alabama Ave St Louis 11 Mo
Andrew Parts Mfg Co 32-70 31st St Long Island City 6 N Y
Angle Steel Co 56 Oak St Plainwell Mich
Ansted Corp 1428 W Henry St Indianapolis 7 Ind
Ansul Chemical Co Fire Extinguisher Div Marinette Wis
ANTHES FORCE OILER CO 20th St and Ave M Ft Madison Iowa
Anthony Co Streator Ill
Anti-Rust Corp 315 E 91st St New York N Y
Anzick Auto Body Parts Co 23675 Mound Rd Van Dyke Mich
Apco Mossberg Co Lamb St Attleboro Miss
Apcor Sales Div 13341 Livernois Ave Detroit 38 Mich
Apex Machine & Tool Co 1025 Patterson Blvd Dayton Ohio
APEX REINFORCED PLASTICS DIV OF WHITE SEWING MACHINE CORP 100 Elm St at Washington Cleveland 13 Ohio
Appleton Electric Co 1701 Wellington Ave Chicago 13 Ill
Apollo Metal Works Inc Clearing Station Chicago 38 Ill
Arco Co 7301 Bessemer Ave Cleveland 27 Ohio
ARGO TACHOGRAPH DIV EFFICIENT INSTRUMENTS CORP 613 West 46th St New York 36 N Y
Ark-Les Switch Corp 51 Water St Watertown 72 Mass
Arkansas Machine Specialty Co Hope Ark
ARMCO STEEL CORP 703 Curtis St Middletown Ohio
Armour Coated Abrasives Div Armour & Co North Benton Rd Alliance Ohio
Armour Cushioning Products Div Armour & Co North Benton Rd Alliance Ohio
Armstrong-Bray & Co 5346-78 Northwest Highway Chicago 30 Ill
Armstrong Bros Tool 5200 W Armstrong Ave Chicago 46 Ill
ARMSTRONG CORK CO INDUSTRIAL DIV Lancaster Pa
Armstrong Mfg Co 303 Knowlton St Bridgeport 8 Conn
Armstrong Norwalk Rubber Corp 20 Glover Ave Norwalk Conn
ARMSTRONG RUBBER CO 475 Elm St West Haven 16 Conn
Arnholt Corp Automatic Div Argonne Rd Warsaw Ind
ARO EQUIPMENT CORP Bryan Ohio
Arps Corp 1920 Harrison St New Holstein Wis
Arrow Armatures Co 15 Fordham Rd Boston 39 Mass
Arrow Head Steel Products Co Howell Mich
ARROW SAFETY DEVICE CO Mt Holly N J
Arrow Tool & Reamer Co 711 Stephenson Highway Troy Mich
Arsco Mfg & Sales Corp 451-10 Ave New York 18 N Y
Arvey Corp 6401 E Nevada Ave Detroit 12 Mich
Arvin Industries Inc 13th St & Big Four R R Columbus Ind
Asbestos Mfg Co E Sabine Street Huntington Ind
Asbestos Textile Co 165 W Wacker Drive Chicago 1 Ill
Ashland Mfg Co 4003 Seven Mile Lane Baltimore 8 Md
Ashland Oil & Refining Co 1409 Winchester Ave Ashland Ken
Ashton Equipment Co 1701 W Lafayette Ave Detroit 16 Mich (Sole distributors Collins & Associates 4902 Heirwerth Ave Cincinnati 38 Ohio)
Associated Div Tide Water Associated Oil Co 79 New Montgomery St San Francisco Calif
Associated Equipment Corp 5147 Natural Bridge Ave St Louis 15 Mo
Astoria Mfg Co 42-02 Vernon Blvd Long Island City 1 N Y
Athey Products Corp 5631 W 65th St Chicago 38 Ill
Athol Mfg Co 71 Chestnut Hill Ave Athol Mass
Atlantic Battery Co 80 Elm St Watertown 72 Mass
Atlantic India Rubber Works Inc 571 W Polk St Chicago 7 Ill
Atlantic Metal Hose Co 308 Dyckman St New York 34 N Y
Atlantic Refining Co 260 S Broad St Philadelphia Pa
Atlantic Steel Co 16th & Mecaslin St Atlanta Ga
Atlas Asbestos Co 469 Walnut St North Wales Pa
Atlas Fence Co 3644 Richmond St Philadelphia 34 Pa
Atlas Press Co 1842 N Pitcher St Kalamazoo Mich
Atmars Tool Co 3561 Lakeshore Ave Oakland 16 Calif
Atomix Inc Box 486 Wilmington 99 Del
Atomized Materials Co 207 Rauch Bldg Pittsburgh 5 Pa
Attwood Brass Works Inc 303 Douglas St N W Grand Rapids Mich
Atwood Vacum Machine Co 1400 Eddy Ave Rockford Ill
Auburn Mfg Co Pease Ave & Stack St Middletown Conn
Auburn Spark Plug Co York St Auburn N Y
Austin Trailer Equipment Co 1148 W Western Ave Muskegon Mich
Austin Western Works Construction Equipment Div Baldwin Lima Hamilton Corp 601 Farnsworth Ave Aurora Ill
AUTAC INC Box 1071 New Haven Conn
Auto Body Works Pierce Ave & Eighth St Appleton Wis
AUTOCAR DIV OF WHITE MOTOR CO Exton Pa
Auto-Craft Mfg Co Div of B-N Corp 2425 San Fernando Rd Los Angeles 65 Calif
Auto Glass Mfg Co 8701 Brinnell Ave Detroit 13 Mich
Auto Lamp Mfg 2909 S Indiana Ave Chicago 9 Ill
Auto Master Corp 980 S Bayshore Blvd San Mateo Calif
Auto Matic Alarm Systems 2311 Indiana Ave Chicago Ill
Automatic Switch Co Hanover Rd Florham Park N J
Automatic Nut Corp 16th & Willow Sts Lebanon Pa
Automatic Steel Products Inc Spun Steel Div 1201 Camden Ave S W Canton 6 Ohio
Automatic Transportation Co Div Yake & Towne Mfg Co 101 W 87th St Chicago 20 Ill
Auto-Mechanical Dockboard Inc 500 N Stanwood Rd Columbus 9 Ohio

Product listings begin on page 79

Automotive Equipment Mfg Co 11000 S Alameda St Lynwood Cal
Automotive Finishes Inc 8747 Brandt St Dearborn Mich
Automotive Industries Corp Owendale Mich
Automotive & Marine Products Corp 165 Chestnut Hill Ave Boston 35 Mass
Automotive Products Div Crotty Corp 35 E Chicago Ave Quincy Mich
Automotive Thrust Bearings Corp 2021 S Michigan Ave Chicago 16 Ill
Auto Radiator Mfg Co 2901 Indiana Ave Chicago Ill
AUTO SPECIALTIES MFG CO 643 Graves St St Joseph Mich
Auto Test Inc 600 S Michigan Ave Chicago 5 Ill
Auto Transport Mfg Co 3698 S Chestnut St Fresno Calif
Auto Truck Steel Body Co 3040 Carroll Ave Chicago 12 Ill
Auto Vehicle Parts Co 1032 Saratoga St Newport 6 Ky
Autoquip Corp 1-140 S Washtenaw St Chicago 12 Ill
Available Truck Co Div of Crane Carrier Corp P O Box 5008 Tulsa Okla
Avon Tube Div of Highie Mfg Co Charles St Rochester Mich

B

BEW Corp 3055 E 12th Street Los Angeles 23 Calif
B G Corp 321 Broad Ave Ridgefield N J
BMC Mfg Co 5 Griswold St Binghamton N Y
Babaco Alarm Systems Inc 733 Washington St New York N Y
BACHARACH INDUSTRIAL INSTRUMENT CO 200 N Braddock Ave Pittsburgh 8 Pa
Backstay Welt Co Oak & Howard Sts Union City Ind
Bacon American Corp 718 S Elliott St Muncie Ind
Bacon Vulcanizer Mfg Co 1295 67th St Oakland 8 Calif
Badger Body Mfg Co 2719 Cuming St Omaha Neb
Badger Mfg Corp 1501 W Polk St Chicago Ill
Badger Mfg Co 1505 City Court Marinette Wis
Baer Bros 438 W 37th St New York N Y
Bakelite Co 30 E 42nd Street New York 17 N Y
Baker Equipment Engrg Co Summit & Norfolk Sts Richmond 11 Va
Baker Industrial Truck Div of Otis Elevator Co 8000 Baker Ave Cleveland 2 Ohio
Baker Mfg Co 5660 W River Rd Marine City Mich
Baker Mfg Co 154 W Water St Kankakee Ill
Baker Trailer & Body Co 700 N 20th St St Louis 3 Mo
Balcrank Inc Disney St nr Marsburg Cincinnati Ohio
Baldor Electric Co 4357 Duncan Ave St Louis 10 Mo
Baldwin Lima Hamilton Corp Philadelphia National Bank Bldg Philadelphia 7 Pa
Baldwin Mfg Co J A P O Box 656 Kearney Neb
Ball Chemical Co 524 Federal St Pittsburgh 12 Pa
Balloon Tire Mould Co 527 Ceres Ave Los Angeles 1 Cal
Ball & Roller Bearing Co 22 Maple Ave Danbury Conn
Baltimore Body Corp 2253 Kirk Ave Baltimore Md
BANDAG INC 1058 Hershey Ave Muscatine Iowa
Bandimere Mfg Co 3276 Benton St Denver 14 Colo
Bangor Plastics Inc Bangor Mich
Banner Aluminum Body Corp N E Corner 19th & Washington Ave Philadelphia 46 Pa
Barber Colman Co 1300 Rock St Rockford Ill
BARBER'S GLASS & MFG. CO 13 Harrison Box 588 Oklahoma City Okla
Barbour Stockwell Instruments 80 Cambridge St Worcester Mass
Barch Nicholson Co 8100 Joy Rd Detroit 4 Mich
Bardohl Mfg Corp 1400 W 52nd St Seattle 7 Wash
Bares Co The 13210 Shaker Sq Cleveland 20 Ohio
Barkow Co H 153 N Milwaukee St Milwaukee 2 Wis
Barley Earhart Corp Portland Mich
Barmotive Products Inc 440 Peralta Ave San Leandro Calif
Barnes Corp John S 301 S Water St Rockford Ill
Barnes Drill Co 826 Chestnut St Rockford Ill
Barr & Co W M 2336 S Lauderdale St Memphis 6 Tenn



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Barry & Baily Co 2419 N 27th St Philadelphia 32 Pa
Bar's Products Supply Inc P O Box 146 Holly Mich
BARTLETT TRAILER CORP 3080 Archer Ave Chicago 8 Ill
Barton Products Co 1891 N Winnebago Ave Chicago 47 Ill
Batavia Body Co 5 W Wilson St Batavia Ill
Bath & Co Cyril Metal Form Div 32280 Aurora Rd Solon Ohio
Bath & Co John 10 Mann St Worcester 8 Mass
Bathey Mfg Co 100 S Mill St Plymouth Mich
Battenfield Grease & Oil 3148 Roanoke Rd Kansas City 8 Okla
Baughman Mfg Co Shipman Rd Jerseyville Ill
Bay Mfg Div Electric Auto Lite Co Bay City Mich
Bay Mfg Div of Life Time Products Corp Box 85 Canfield Ohio
Bay Products Div American Metal Works Inc 1835 W Cambria St Philadelphia 32 Pa
Bay State Abrasive Products Co 12 Union St Westboro Mass
Bay State Tap & Die Co Chauncey St Mansfield Mass
Beacon Auto Radiator Co 110 Brookline Ave Boston 15 Mass
Beacon Corp 235 Sexton Bldg Minneapolis 15 Minn
Beacon Devices Inc 74 Olive St North Tonawanda N Y
Beall Pipe & Tank Corp 12005 N Burgard St Portland 3 Ore
Beall Tool Div Herbrand & Co East Alton Ill
Beam Products Mfg Co 3040 Rosslyn St Los Angeles 65 Calif
Bean Div John Food Machinery & Chemical Corp 1305 S Cedar Lansing 4 Mich
Bear Mfg Co 2016 Fifth Ave Rock Island Ill
Beard Tool Co L O Andrew & Mill Sts Lancaster Pa
BEARINGS CO OF AMERICA DIV OF FEDERAL-MOGUL-BOWER BEARINGS INC 501 Harrisburg Ave Lancaster Pa
Beauloye Engineering Co 2141 Newton St San Diego Calif
Beaverite Products Inc Beaver Falls N Y
Beck Equipment Co 3350 West 137th St Cleveland 11 Ohio
Becker Brothers Carbon Co 3450 S 52nd Ave Cicero 50 Ill
Beckett Bronze Co 20th & S Walnut Sts Muncie Ind
Bedell Trailer Co 1506 S Flores St San Antonio 4 Tex
Bee Line Co P O Box 569 Davenport Iowa
Beebe Bros 2724 Sixth Ave S Seattle 4 Wash
Behr-Manning Corp 960 Howe Ave Troy N Y
BEKAERT STEEL WIRE CORP 655 Madison Ave New York 21 N Y
BELDEN MFG CO 415 S Kilpatrick St Chicago 44 Ill
Belgrade Wagon Works 3740 E Thompson St Philadelphia 37 Pa
Bell Co 411 N Wolcott Ave Chicago 22 Ill
Bell & Gossett Co 8200 Austin Ave Morton Grove Ill
Bell Laboratory Inc 2421 KilGora St Orlando Fla
Bellows Co 222 W Market St Akron 9 Ohio
Belmont Body Builders 175 Belmont Ave Newark 3 N J
Belmont Smelting & Refining Works 3269 Belmont Ave Brooklyn N Y
Belmor Mfg Co 3326 W Cermak Rd Chicago 23 Ill
Bemis Bros Bag Co 111 N Fourth St Box 79 St Louis 2 Mo
Bender Equipment Co J H 5430 Tweedy Blvd South Gate Calif
BENDIX PRODUCTS DIV BENDIX AVIATION CORP 401 N Bendix Drive South Bend 20 Ind
Bendix Radio Communications Div Bendix Aviation Corp E Joppa Rd Towson 4 Md
BENDIX WESTINGHOUSE AUTOMOTIVE AIR BRAKE CO 901 Cleveland Rd Elyria Ohio
Bendix-Skinner Div Bendix Aviation Corp 434 W 12 Mile Rd Royal Oak Mich
Benjamin Reel Products Inc 10700 Broadway Cleveland 25 Ohio
Bennett-Feragen Inc 1408 Jerome St Niles Mich
BENNETT PUMP DIV JOHN WOOD CO Muskegon Mich
Benz Spring Co 321 N W Ninth Ave Portland 9 Ohio
Berg Gibson Mfg Co 817 E 17th St Kansas City 8 Mo
BERG MFG & SALES CO INC 1712-14 S Michigan Blvd Chicago 16 Ill
BERGER MFG DIV REPUBLIC STEEL CORP 1038 Belden Ave N E Canton 5 Ohio
Bergman Tool Mfg Co 1573 Niagara St Buffalo 13 N Y
Berkson Products Inc 217 N Desplaines St Chicago 6 Ill
Berluti Mfg Co 2936 Bay Rd Saginaw Mich
Berman Service Inc Pennsburg Pa
Bermo Industries Inc 216 W 86th St Minneapolis Minn
Berry Hydraulic Div of John Tyrone Oliver Bldg Pittsburgh 22 Pa
Besley & Co Chas H 118 N Clinton St Chicago 6 Ill
Besley-Welles Corp 20 N Wacker Drive Chicago 6 Ill
BEST VALUES CO 403 Market St Newark N J
Bethlehem Steel Co Bethlehem Pa
Better Monkey Grip Co 5320 Harry Hines Blvd Dallas 22 Tex
BETTS MACHINE CO 1800 Pennsylvania Ave W Warren Pa
Betts Spring Co 868 Folsom St San Francisco Calif
Biddle Co James G 1316 Arch St Philadelphia 7 Pa
Big Boy Products Div of Dalton Foundries Inc Lincoln & Jefferson Sts Warsaw Ind
Big Four Industries Inc Maineville (Foster) Ohio
Big Joe Mfg Co 900 W Jackson Blvd Chicago 7 Ill
Biggs Steel Foundry & Fabricating Co 1007 Bank St Akron Ohio
Billings & Spencer Co 1 Laurel St Hartford Conn
Biltmore Products Inc 36 St Paul St Rochester 4 N Y
Binder Equipment Co J H 5430 Tweedy Blvd South Gate Calif
BINKLEY MANUFACTURING CO Warrenton Mo
Binks Mfg Co 3114 Carroll Ave Chicago 12 Ill
Birdsboro Steel Foundry & Co Birdsboro Pa
Birdsell Mfg Co 750 San Antonio Rd Palo Alto Calif
Birmingham Mfg Co 14 S 55th St Birmingham Ala
BISHMAN MANUFACTURING CO Route 2 Osseo 26 Minn

→

Bishop & Babcock Mfg Co 4901 Hamilton Ave N E Cleveland 14 Ohio
BLACK & DECKER MFG CO 629 Pennsylvania Ave Towson 4 Md
Black Diamond Trailer Co Euclid Ave Bristol Va
BLACKHAWK MFG CO Automotive Div 5325 W Rogers St Milwaukee 46 Wis
Black Mfg Co 403 Penn St Baltimore 30 Md
Black & Sons Inc Adam 276 Tonnele Ave Jersey City 6 N J
Blackstone Corp 1088 Allen St Jamestown N Y
Blackstone Mfg Co 4630 W Harrison St Chicago 44 Ill
Blair Equipment Co 902 Blair St Flint 4 Mich
Blaisdell Mfg Co 1350 Coronado Ave Long Beach 4 Calif
Blakeslee & Co G S 1844 S Laramie Ave Cicero 50 Ill
Bliss Co E W 1375 Raff Rd S W Canton Ohio
Blitz Electric Co 5713 Wentworth Ave Chicago 21 Ill
Blood Brothers Machine Co Div Rockwell Spring & Axle Co Allegan Mich
Blosom Mfg Co 2337 McDonald Ave Brooklyn N Y
Blue Crown Corp Defiance Ohio
Boardman Co P O Box 1152 1401 S W 11th St Oklahoma City Okla
Body Builders Inc 1445 16th St Huntington 1 W Va
Bogue Electric Mfg Co 52 Iowa Ave Paterson 3 N J
Bohn Aluminum & Brass Corp 1400 Lafayette Bldg Detroit 26 Mich
Boice Crane Co 930 W Central Ave Toledo 6 Ohio
Boice Gages Inc Hyde Park N Y
Boker & Co 101 Duane St New York N Y
Bolick Sons Co Jerome Conover N C
Bolser Corp 27th & Main Sts Cedar Falls Iowa
Bonded Scale & Machine Co 83 Bellevue Ave Columbus Ohio
Bonney Forge & Tool Works 2400 Rockhill Rd N Alliance Ohio
Bonzer Western Corp 3055 E 12th St Los Angeles 23 Calif
Booth Felt Co 1726 Tenth Ave Brooklyn 15 N Y
Boots Aircraft Nut Corp Newton Turnpike Norwalk Conn
Borden Chemical Co Div of Borden Co 350 Madison Ave New York 17 N Y
Bordner Mfg Co 101 S Louis Ave Freeport Ill
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BOSTON
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TAlbot 5-3907
SALT LAKE CITY
J. H. Hay Sales Company
ELgin 5-5460
NEWPORT BEACH
Jobbers Equipment Exchange
HYatt 4-1681
JACKSONVILLE
James H. Jones
RAymond 5-1699
INDIANAPOLIS
Joe Keller
LIberty 5-0500
OKLAHOMA CITY
Kline Sales Company
CEntral 5-0848
KANSAS CITY
Chas. H. Koslowsky Company
WEstport 1-8088
SAN FRANCISCO
Robert E. Sanderson & Assoc.
HE. 1-6246
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VIctor 3-4924
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DIckens 2-0804
E. DETROIT
Gabriel Nicholas
PRescott 8-0563
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FEderal 2-7793
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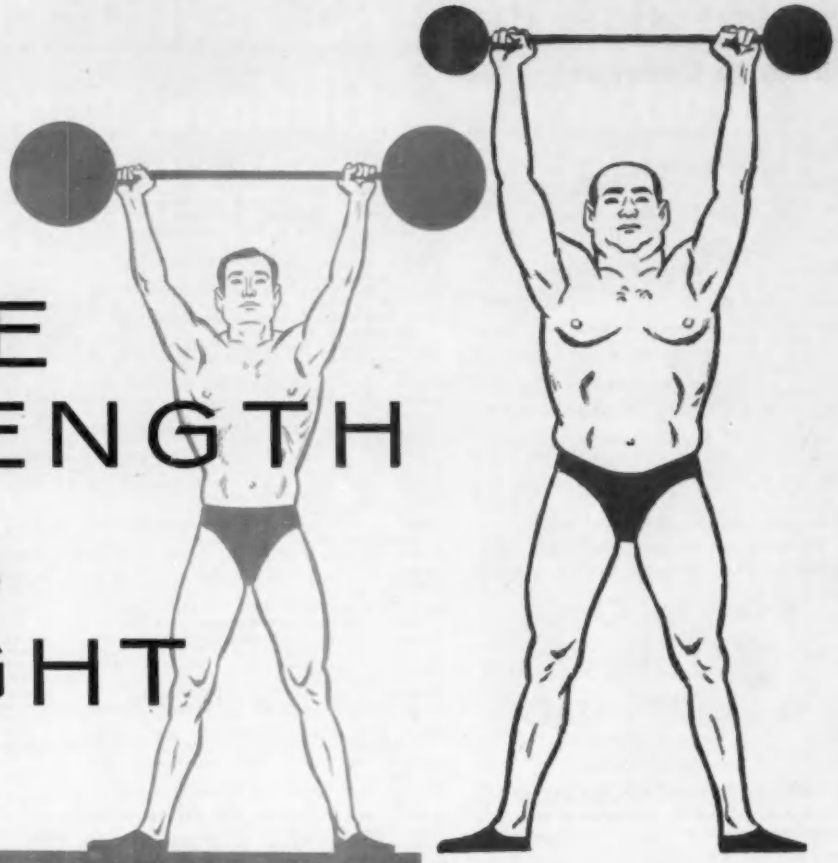
Lee L. Vaughan
AM. 6-9186
DALLAS
Vogel-Swygard Associates
RIverside 2-5129
CHESTER HEIGHTS
G. W. K. Voigt Company
GLobe 9-2137
ROCHESTER
Irving F. Wagner
BEverly 5-2928
TOLEDO
James J. Wernert Associates
JOrdan 1666
DENVER
Lyle Wolf & Company
KEystone 4-8857
PITTSBURGH
John F. Young Company
EMerson 1-1865
WASHINGTON, D. C.
Henry C. Howells
MA. 8-2425

Bishman Mfg. Co.



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For increased driver productivity, improved morale, better equipment handling, install
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See advertisement on Page 258

Buckeye Tools Corp 5005 Springboro Pike Dayton 9 Ohio
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Buda Div Allis Chalmers Mfg Co Milwaukee 1 Wis
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Buffalo Forge Co 490 Broadway Buffalo 4 N Y
Buffalo Pressed Steel Co 460 N Meridian St Youngstown 9 Ohio
Buffalo Scale Co 46 Letchworth St Buffalo 13 N Y
Buffalo Springfield Roller Co 1210 Kenton St Springfield Ohio
Buick Motor Div General Motors Corp Flint 2 Mich
Builders Ornamental Iron Co 4655-59 W Arthington St Chicago 44 Ill
Bullard Co E D 2680 Bridge Way Sausalite Calif
Bulldog Electric Products Co 7610 Jos Campau Ave Detroit 32 Mich
Bumpers Inc 2534 Detroit Ave Cleveland Ohio
Bundy Tubing Co 8109 Jefferson Ave Detroit 14 Mich
Bunell Machine & Tool Co 1601 E 23rd St Cleveland 14 Ohio
Bunker Hill Co 5th Fl 600 Market St San Francisco 4 Calif
Bunting Brass & Bronze Co 715 Spencer St Toledo 9 Ohio
Burch Corp 326 S Thoman St Crestline Ohio
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Bunke Musser Inc Box 386 Jackson Center Ohio
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Burndy Corp Omaton Div Norwalk Conn
Burroughs Corp Second & Burroughs Ave Detroit 32 Mich
Burtchaell Heating Co 2944 S E Powell Blvd Portland 2 Ore
Burton Auto Spring Corp Western Ave At 48th St Chicago 32 Ill
Burtchaell Heating Co 2944 S E Powell Blvd Portland 2 Ore
Busch & Co A G 6138 Northwest Hwy Chicago 31 Ill
Buschman Co E W Spring Grove & Clinton Ave Cincinnati 32 Ohio
Bushings Inc 4358 Coolidge Highway Royal Oak Mich
Bussmann Mfg Div McGraw-Edison Co 2536 University St St Louis 7 Mo
Bustin Steel Products Inc Dover N J
Butler Eng Co 2610 Russeau St New Orleans 11 La
Butler Mfg Co 7400 E 13th St Kansas City 26 Mo
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Cabot Inc Samuel 141 Milk St Boston 9 Mass
Caine Steel Co 5501 W Grand Ave Chicago 39 Ill
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Calco Steel Products Co 23-29 New England Ave Dor-Chester 24 Mass
California Co Denver 1 Colo
CALIFORNIA OIL CO Perth Amboy N J
CALLAHAN MFG CO 90 Halton St Danver Mass

Product listings begin on page 79

"Tandematic Drives give our fleet increased maneuverability... traction ...ease of handling..."

...says C. S. Ritz, Vice President, The Billy Baker Co., Toledo, Ohio

The Billy Baker Co. has been in the bulk-transportation business since 1898, and currently operates a fleet of dump trucks, stake trucks, winch trucks, tractors, flat trailers, machinery trailers, and cement-hauling trailers—enough variety to give any equipment a thorough test. Fifteen of the company's trucks and tractors are equipped with Gates Tandematic Drives—and here's the record of their experience...

"Before installing Gates Tandematic Drives," Mr. Ritz writes, "we had great difficulty maneuvering our fleet on many of our 'off-the-road' operations. The condition was, of course, aggravated during the Winter months.

"With Gates Tandematic Drives, our fleet units maneuver freely on any type of terrain in any kind of weather. Now we are also sure of being able to back up any steep unloading ramp, regardless of soft bearing surface.

"We have noted, too, that our drivers take pride in telling others about their rigs' increased traction and ease of handling. This has had a much desired effect on driver morale."

Gates Tandematic Drive can be used on trucks with either tag or pusher axles...spoke or disc-type wheels.

Gates Tandematic Drive gives you BOTH...

Specially hardened Red Groove Pulley

Has more than 3 times greater life than ordinary pulleys. (Gates Red Grooves have a hardness rating from 430 to more than 600 on the Brinell hardness scale.)

Roll-on feature (Pat. Pend.) Split construction permits pulley groove to be offset, so belt can be rolled on at high tension easily and safely.

Self-cleaning. Open design insures peak operating efficiency at all times.

Rib-Top V-Belt

Protective ribbed top: Resists sandblast effects from wheels.

Flex-Weave cover: Protects vital core of belt.

Concave sidewalls: Concave sides increase belt life.

Special tensile cord construction: Greater resilience of Gates tougher tensile cords enables belt to absorb shocks and carry extra heavy loads.

The Gates Rubber Company • Denver, Colorado

Gates Rubber of Canada Ltd., Brantford, Ontario

Gates *World's Largest Maker of V-Belts*

TPA 369

Gates Tandematic Drive

Calumet to Circle

Calumet Steel Castings Corp 1636 Summer St Hammond Ind
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CAMBRIDGE INSTRUMENT CO INC 3732 Grand Central Terminal Bldg New York 17 N Y
Campbell Auto Works 2128 N F Street Stockton Cal
CAMPBELL CHAIN CO York Pa
Campbell Co A S 161 Prescott St East Boston 28 Mass
Campbell Co H D 402 Dewey Ave Rochelle Ill
Campbell Filter & Mfg Co Rumford R I
Campbell Hausfeld Cor 211 Railroad Ave Harrison Ohio
Campbell Paint & Varnish Co Div Glidden Co 106 Gratiot St St Louis 2 Mo
Campbell Wyant & Cannon Foundry Co Muskegon Mich
Can Tool Co 288 22nd St Oakland 12 Calif
Cannon Chemical Co 181 Portland St Cambridge 41 Mass
Canton Drop Forging & Mfg Co 207 12th St S E Canton Ohio
Canton Malleable Iron Canton Ohio
Canton Manufacturing Co 2406 13th St N E Canton 5 Ohio
Capitor Refrigeration & Mfg Co 3922 Kullock Dr Dallas 16 Texas
Capson Mfg Co 2565 Fullerton Ave Chicago Ill
Carbone Co Mytle Ave Boonton N J
Carborundum Co Niagara Falls N Y
Card Mfg Co S W Div Union Drill Co Rumford Ave Mansfield Mass
Carey Mfg Co Philip Lockland Cincinnati 15 Ohio
Cargo Guard Inc P O Box 1977 Thompson's Point Portland 2 Me
Cargo Stabilizing Devices 8242 McCormick Blvd Skokie Ill
Cargotainer Div Tri-State Engineering Co 325 W Beau St Washington Pa
Carlan Instruments Co 1375 Park Ave Cranston 9 R I
Carlisle Machine Works Box 8 Longview Texas
Carlisle Tire & Rubber Div Carlisle Corp 620 N College St Carlisle Pa
Car-Mon Products Co 1541 Devon St Chicago 26 Ill
Carnegie Body 6115 Carnegie Ave Cleveland 3 Ohio
Carolina Metal Products Inc 2222 South Blvd Charlotte N C
Carpenter Body Works Inc Mitchell Ind
Carpenter Mfg Co 195 Master Light Bldg Somerville 45 Mass
Carr Fastener Co 31 Ames St Cambridge Mass
Carston Mfg Co 46 N 2nd St Mt Vernon N Y
Carter Carburetor Div of A C F Industries Inc 2840 N Spring Ave St Louis 7 Mo
Carter Co George R 630 Lycaste Ave Detroit 14 Mich
Carter Parts 3401 W Madison St Skokie Ill
Cartriseal Corp 3515 W Touhy Ave Lincolnwood Ill
Casco Products Corp 512 Hancock Ave Bridgeport 2 Conn
Case Co J I 700 State St Racine Wis
Caster Mold & Machine Co 1171 Wooster Rd N Barberton Ohio
Casteroil Products Inc 145 Alexander St Yonkers 2 N Y
Caterpillar Tractor Co Peoria 8 Ill
Cato Trailer Service Co White Horse Rd Greenville S C
CEDAR RAPIDS ENGINEERING CO 902 17th St N E Cedar Rapids 1 Iowa
Cee Bee Chemical Co 9520 E Ceebee Drive Dormey Calif
Celco Corp 60 E 42nd St New York 17 N Y
Cellusede Products Inc 501 N Madison St Rockford Ill
Cemco Industries Inc 22 Rensch Ave Galion Ohio
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Centrifugal Foundry Co 1367 W Sherman Blvd Muskegon Mich
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Chadwick & Trefethen 32 Bow St Portsmouth N H
Chain Belt Co 4733 W Greenfield Ave Milwaukee 1 Wis
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Chambersburg Engineering Co Derbyshire St Chambersburg Pa
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Champ Spring Co 2107 Chouteau Ave St Louis Mo
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Char-Lynn Co 2843-26th Ave S Minneapolis 6 Minn
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Checker Motor Corp 2016 N Pitcher St Kalamazoo Mich
Chelsea Products Inc 21 Buchanan St Chelsea Mich
Chemex Corp 41 Murray St New York 7 N Y
Chemical Prods Corp King Philip Rd East Providence R I
CHEMSTRAND CORP 350 Fifth Ave New York 1 N Y
Chester Hoist Div National Screw & Mfg Co Lisbon Ohio
CHEVROLET MOTOR DIV OF GENERAL MOTORS CORP Detroit 2 Mich
Chicago Allis Mfg Corp 113 N Green St Chicago 7 Ill
Chicago Cork Work Co 6001 Gross Point Rd Niles Ill
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Chicago Latrobe 426 W Ontario St Chicago 10 Ill
Chicago Lock Co 2024 N Racine Ave Chicago 14 Ill
Chicago Mfg Co 411 N Trumbull Ave Chicago Ill
CHICAGO PNEUMATIC TOOL CO 6 E 44th St New York 17 N Y
CHICAGO RAWHIDE MFG CO 1301 Elston Ave Chicago 22 Ill
Chicago Rivet & Machine Co 9603 W Jackson Blvd Bellwood Ill
Chicago Screw Co Div of Standard Screw Co 2701 Washington Blvd Bellwood Ill
Chicago Tool & Kit Mfg Co 230 N Jefferson St Chicago 6 Ill
Chicago Tool & Engrg Co 8383 South Chicago Ave Chicago Ill
Chicago Wheel & Mfg Co 1101 W Monroe St Chicago 7 Ill
Chilton Metal Products Inc 300 Breed St Chilton Wis
Chisholf Industries Inc 11 Commercial St Lynn Mass
Chisholm Moore Hoist Div Columbus McKinnon Chain Corp Fremont Ave Tonawanda N Y
CHOLDUN MFG CORP 331 East St New Haven Conn
Christie Electric Corp 3410 W 67th St Los Angeles 43 Calif
Cinch Mfg Co 1026 S Homan St Chicago 24 Ill
Cincinnati Auto Spring Co 5753 Este Ave Cincinnati 32 Ohio
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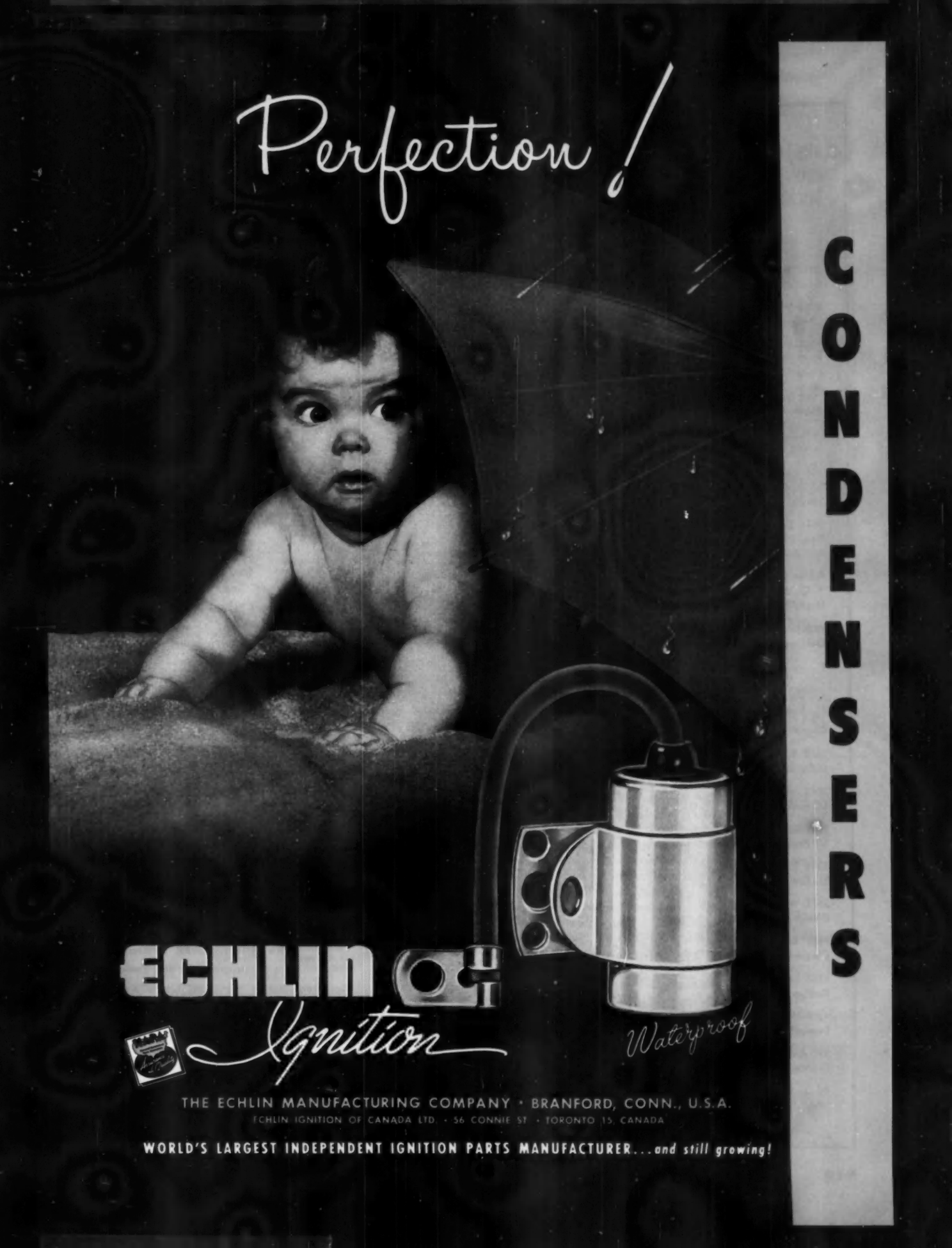
"Well, I've got your pressure plate assembly in—now all I have to do is *tear it all down again and put th' clutch disc in!*"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THE ECHLIN MANUFACTURING COMPANY · BRANFORD, CONN., U.S.A.
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Clayborne Mfg Co 429 N Main St Montecello Inc
Clayson-Lorenz Co 4058 W Chicago Ave Chicago 51 Ill
CLAYTON MFG CO 401 N Temple City Blvd El Monte Calif
Clearing Machine Corp 6499 W 65th St Chicago 38 Ill
Cleco Div of Reed Roller Bit Co 5125 Clinton Dr Houston 1 Texas
Cleereman Machine Tool Corp 600 Elizabeth St Green Bay Wis
Clement Braswell Inc 319 La Bank Bldg Shreveport La
Clements Mfg Co 6650 S Narragansett Ave Chicago Ill
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Cleveland Container Co Abrasive Div 3571 W 62nd St Cleveland 2 Ohio
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Cleveland Hone & Mfg Co 8816 Harkness Rd Cleveland 6 Ohio
Cleveland Steel Products Corp 16025 Brookpark Rd Cleveland 11 Ohio
Cleveland Steel Tool Co 660 W 82nd St Cleveland Ohio
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Cliffside Body Corp 230 Laird Ave Cliffside Park N J
Clifton Hydraulic Press Co 289 Alwood Rd Clifton N J
Clifton Mfg Co 323-327 Pleasant St Waco Tex
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Cline Truck Co 3501 Gardner Ave Kansas City 20 Mo
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Clinton Products Co 701 Tecumseh Rd Clinton Mich
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Cochin Mfg Co J D 1440 E Grand Ave South San Francisco Cal
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COLE HERSEE CO 20 Old Colony Ave Boston 27 Mass
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COLLINS & ASSOCIATES 4906 Heuwerth Ave Cincinnati 38 Ill
Collott Owen M 1823 S Industrial Rd Salt Lake City 4 Utah
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Colonial Alloys Co Ridge Ave & Crawford St Philadelphia 29 Pa
Colorgio Products Inc 8321 Allport Ave Whittier Calif.
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Colson Corp Elyria Ohio
Colton Co Div of Snyder Toll & Engrg Co 8400 E Lafayette St Detroit 7 Mich
Columbia Eng Service Co 173 14th St San Francisco Calif
COLUMBIA GENEVA STEEL DIV 120 Montgomery St San Francisco Calif
Columbian Steel Tank Co 1409 W 12th St Kansas City 7 Mo
Columbus Coated Fabrics Corp 7th & Grant Aves Columbus 16 Ohio
Columbus Industries P O Box 362 Columbus Ind
Columbus McKinnon Chain Corp Tonawanda N Y
Columbus Metal Products Inc 1341 Norton Ave Columbus 8 Ohio
Combinator Sales Div Kurland Motors 1144 Broadway Denver 3 Ohio
Comet Automotive Mfg Corp Red Comet Building Littleton Colo
Comfort Cushion Co 5062 Loraine Ave Detroit 5 Mich
Commercial Body Corp Br-Pass 291 Corp Greenville S C
Commercial Filters Corp 2 Main St Melrose 76 Mass
Commercial Shearing & Stamping Co 1775 Logan Ave Youngstown Ohio
COMMERCIAL SOLVENTS CORP 260 Madison Ave New York 17 N Y
Commonwealth Brass Corp 5835 Commonwealth Ave & G T R R Detroit 8 Mich
Communications Co 300 Greco Ave Coral Gables 34 Fla
Compo Corp Defiance Ohio
Conant & Donelson Co Conway Mass
Conco Engineering Works Div of H D Conkey & Co Mendota Ill
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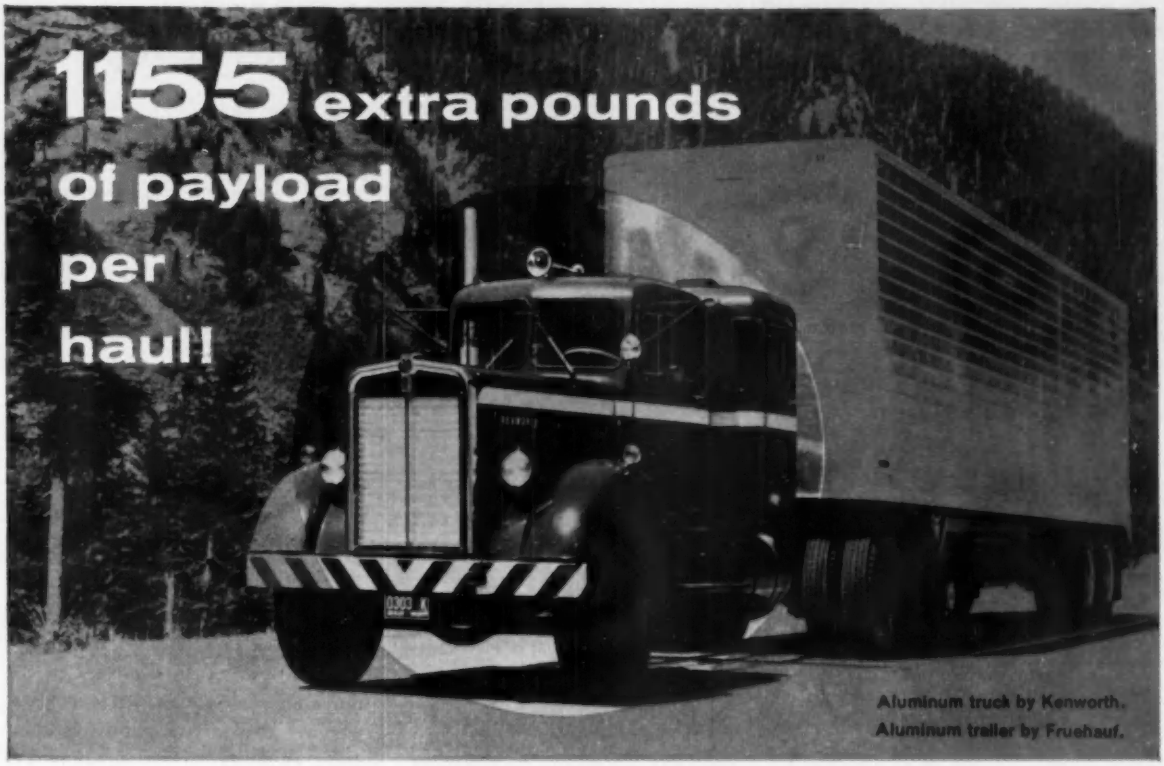
Consolidated Brass Co 2019 N Tryon Ave Charlotte 6 N C
CONSOLIDATED GENERAL PRODUCTS 24-01 Nicholson Rd Houston Texas
Consolidated Packing & Supply Co 37-39 Murray St N Y 7 N Y
Consolidated Water Power 7 Paper Co Ahdawagam Div P O Box 50 Wisconsin Rapids Wis
Continental Battery Co 4919 Woodall St Dallas 7 Texas
Continental Bearing Corp 2515 Wabash Ave Chicago 16 Ill
Continental Diamond Fibre Newark 10 Del
Continental Electric Co 715 Hamilton St Geneva Ill
Continental Felt Co 22 W 15th St New York 11 N Y
Continental Mfg Corp 10411 W Washington Blvd Culver City Calif
CONTINENTAL MOTORS CORP Muskegon 82 Mich
Continental Oil Co Continental Oil Bldg Ponca City Okla
Continental Rubber Works 1937 Liberty Ave Erie Pa
Continental Screw Co 100 Mt Pleasant St New Bedford Mass
Continental Tapes P O Box 256 Cayce S C
Contour Truck Guards Inc 38 S Dearborn St Chicago 3 Ill
Controls Corp of America Appliance & Automotive Controls Div Schiller Park Ill
Converto Mfg Co Third & Green Sts Cambridge City Ind

Product listings begin on page 79



Made with lightweight Reynolds Aluminum

KENWORTH MOTOR TRUCKS

convert dead weight into capacity for freight!

Here are some of the major application areas where Reynolds Aluminum helped Kenworth save over ¼ ton in truck weight

Component	Weight Savings
Front and rear hubs	184 pounds
Frame Castings	113 pounds
Hood	70 pounds
Cab	138 pounds
Sleeper cab	80 pounds
Front Bumper	65 pounds
Frame	197 pounds
Five Speed Transmission	150 pounds
Auxiliary transmission	158 pounds

Kenworth offers other components made of aluminum as optional equipment

Lightweight aluminum components helped Kenworth Motor Truck Company of Seattle, Washington, save 8% of their total truck weight on a typical three-axle vehicle. This was done by using 1,620 pounds of aluminum. Added aluminum savings occur in maintenance, too . . . aluminum won't rust, resists corrosion, is easy to clean and keep clean. And, aluminum is strong. Pound for pound, it's stronger than steel; dimension for dimension it's one-third as heavy as steel.

Because it permits a wide range of design freedom and is easy to fabricate, aluminum is the perfect metal for modern automotive concepts. Whether you buy or build highway equipment, consider the savings and design versatility of aluminum. Call your nearest Reynolds office or write *Reynolds Metals Company, P. O. Box 2346-VJ, Richmond 18, Virginia.*

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Cook Metal Works 337 S Campbell Ave Mishawaka Ind
Cooper Bessemer Corp Mount Vernon Ohio
Cooper Co D C 1467 S Michigan Ave Chicago 5 Ill
Cooper Mfg Co 411 S First Ave Marshalltown Iowa
COOPER TIRE & RUBBER CO Lima & Western Aves Findlay Ohio
Co-Operative Industries Inc 100 Oakdale Rd Chester N J
Copco Trailers Div Copco Steel Engrg Co 23500 Sherwood Rd Detroit 34 Mich
Copeland Gibson Products Corp 12950 Capital Ave Oak Park 37 Mich
Copeland Refrigeration Corp Adams St Sidney Ohio
Copperweld Steel Co Glassport Div Glassport Pa
Copperweld Steel Co Flexo Wire Div 70 W First St Oswego N Y
Corbett Mfg Co 14280 Birwood Detroit 38 Mich
Corbin Hose Clamp Div American Hardware Corp 102 Washington St New Britain Conn
Corbitt Co Parham St Henderson N C
Cordomatic Dept C 17th & Indiana Philadelphia 32 Pa
Cord Piston Ring Mfg Co 1351 S Olive St Los Angeles 15 Calif
Corduroy Rubber Co Fuller Ave & G T Tracks Grand Rapids 1 Mich
Cornwell Quality Tool Co 200 North Cleveland Ave Mogadore Ohio
Coronet Parts Mfg Co 883 Elton Ave Brooklyn 8 N Y
Cotta Transmission Co 2340 11th St Rockford Ill
Couse Mfg Inc 300 Passaic St Newark 4 N J
Cowles Chemical Co 7016 Euclid Ave Cleveland 3 Ohio
Cox & Sons Leon O Grifton N C
Coyne & Paddock Inc 40-09 21st St Long Island City 1 N Y
Crane Packing Co 6435 Oakton St Morton Grove Ill
Crane Puller Co 11 River St West Newton Mass
Cranz Co J M 2671 Main St Buffalo 14 N Y
Crescent Battery & Light Co 818 Camp St New Orleans 12 La
Crescent Co 20 Central Ave Pawtucket R I
Cresci & Son Inc Boulevard & Grape Sts Vineland N J
Cristy Chemical Corp 37 Harvard St Worcester 2 Mass
Croname Inc 6217 Howard St Chicago 48 Ill
Crosby Co 183 Pratt St Buffalo N Y
Cross Chemical Co 5332 McKinley St Detroit 8 Mich
Crown Coach Corp 2500 E 12th St Los Angeles 21 Cal
Crown Products Co 5722 S 77th St Ralston Nebr
Crown Steel Products Co 1330 N Main St Orrville Ohio
Crucible Steel Co of America 535 Smithfield St Pittsburgh Pa
Crumbliss Mfg Co 3830 N Podlin Drive Franklin Park Ill
Crushproof Tubing Co 312 Park Blvd Cleveland 14 Ohio
Crystal Soap & Chemical Co 6300 State Rd Philadelphia 35 Pa
Culver Stearns Mfg Co 181 Greenwood St Worcester 7 Mass
Cumberland Battery Mfg Co 201 First Ave S Nashville 3 Tenn
Cummins Chicago Corp 4740 Ravenswood Ave Chicago Ill
CUMMINS ENGINE CO 1000 Fifth St Columbus Ind
Cummins Portable Tools Div John Oster Mfg Co 5055 N Lydell Ave Milwaukee 17 Wis
Cuno Engrg Corp 80 S Vine St Meriden Conn
Curran Corp S Canal St Lawrence Mass
Curtis Automotive Devices Inc Westfield Ind
CURTIS MFG CO Pneumatic Div 1905 Keinlen Ave St Louis 20 Mo
Curtiss Wright Corp Utica Mich (Mercedes Benz)
Curtiss Wright Corp Princeton Div P O Box 110 Princeton N J
Cushman Motor Works Inc 920 N 21st St Lincoln Neb
Cutler Hammer Inc 362 N 12th St Milwaukee 1 Wis
Cutler Metal Products Co 1025 Line St Camden N J
Cuyahoga Spring Co 10252 Berea Rd Cleveland 2 Ohio
Cyclone Filter Corp 4401 W North Ave Chicago 39 Ill

D

D & B Mfg Co 2312 S Indiana Ave Chicago Ill
D E K Mfg Co 420 East Pine St Orrville Ohio
D & M Products Inc 26 N Raymond Ave Pasadena Calif
DSM Electric Co John Lodge Expressway Detroit 2 Mich
D-X Sunray Oil Co 907 S Detroit Ave Tulsa 2 Okla
Dacar Chemical Products Co Wabash & McCartney Sts Pittsburgh 20 Pa
Dake Corp 724 Robbins Rd Grand Haven Mich
Dallas Mfg & Sales Co P O Box 7181 Dallas Texas
Dalton Foundries Inc Lincoln & Jefferson Sts Warsaw Ind
DANA CORP 4100 Bennett Rd Toledo 1 Ohio
Daniel Radiator Mfg Co 5542 Harvey Wilson Dr Houston 20 Texas
Danielson Mfg Co Danielson Conn
Danly Machines Specialties Inc 2100 Laramie Ave Chicago 50 Ill
Darcoid Co 145 Sixth Ave New York 13 N Y
Daubert Chemical Co 333 N Michigan Ave Chicago 1 Ill
Davey Compressor Co 600 Franklin Ave Kent Ohio
Davis Auto Equipment Co 119 N 3rd St Reading Pa
Davis Boring Tool Div of Gidings & Lewis Machine Tool Co 475 S Seymour St Fond du Lac Wis
Daybrook Hydraulic Div of L A Young Spring & Wire Corp Bowling Green Ohio
Day & Co James B 1872 Clybourn Ave Chicago 14 Ill
Dayton Air Compressor Co 427 Valley St Dayton 4 Ohio
DAYTON INDUSTRIAL PRODUCTS CO DIV OF THE DAYTON RUBBER CO 2001 N Janice Ave Melrose Park Ill

DAYTON INDUSTRIAL PRODUCTS
CALIFORNIA
Los Angeles—909 E. Slauson Ave.
GEORGIA
Atlanta—1040 Boulevard, S. E.
ILLINOIS
Chicago—2001 Janice Ave.
Melrose Park
NEW JERSEY
Hillside—30-32 Evans Terminal
OHIO
Cincinnati—7730 Reinhold Drive
TEXAS
Dallas—1300 Crampton St.

Dayton Malleable Iron Co Reliable Jack Div 1401 W 2nd St Dayton 1 Ohio
Dayton Pump & Mfg Co 500 N Webster St Dayton Ohio
DAYTON RUBBER CO TIRE DIV Dayton 1 Ohio
DAYTON STEEL FOUNDRY P O Box 1022 1366 Miami Chapel Rd Dayton 1 Ohio
Dearborn Chemical Co Merchandise Mart Plaza Chicago 54 Ill
Decar Chemical Products Co Wabash & McCartney Sts Pittsburgh 20 Pa
Decker Co Richard M 919 N Michigan Ave Chicago Ill
Decora Mfg Co 1516 Park Ave Emeryville 8 Calif
Deere & Co 3300 River Drive Moline Ill
Defiance Spark Plug Corp 323 20th St Toledo Ohio
Defrosto Mirrors Inc 11298 S Alameda St Lynwood Calif
De Hart & Son H A Crown Pt Rd Thorofare N J
DeKalb Commercial Body Co W 229 Garden St DeKalb Ill
De Koven Mfg Co 1201 Michigan Blvd Racine Wis

Product listings begin on page 79

Delaware Tool Steel Corp 3300 Market St Wilmington 99 Del
De Lay Industries Inc 834 Paul Brown Bldg St Louis 1 Mo
Delbar Products Inc 7th & Spruce Sts Perkasie Pa
Del City Wire Co 908 S W 5th St Oklahoma City Okla
DELCO APPLIANCE DIV GENERAL MOTORS CORP P O 230 Rochester 1 N Y
Delco Products Div General Motors Corp 329 E First St Dayton Ohio
DELCO REMY DIV GENERAL MOTORS CORP 2401 Columbus Ave Anderson Ind
Delphi Body Works 311 S Washington St Delphi Ind
Delron Co 5224 Southern Ave South Gate Calif
Delta Chemical Co 2885 Warford Pl Memphis 1 Tenn
Delta Electric Co 33rd & Nebraska Sts Marion Ind
DeLuxe Metal Furniture Co Struthers St Warren Pa
DeLuxe Products Corp 1201 Michigan Blvd Racine Wis
Deming Co 884 S Broadway Salem Ohio
Dempster Bros Inc Box 3127 Knoxville Tenn
Denis Mfg Co 46 Alvin St Springfield 4 Mass
Denison Engineering Co 1160 Dublin Rd Columbus Ohio
Denman Rubber Mfg Co P O Box 951 Warren Ohio
Dennis Chemical Co 2701 Papin St St Louis 3 Mo
Detecto Scales Inc Div Jacobs Bros Co 540 Park Ave Brooklyn N Y
Detrex Chemical Industries Inc Box 501 Detroit 32 Mich
Detroit Aluminum & Brass Corp 3975 Christopher Ave Detroit 11 Mich
DETROIT AUTOMOTIVE PRODUCTS CORP 8701 Grinnell Ave Detroit 13 Mich
Detroit Bevel Gear Co 8130 Jos Campau Ave Detroit 11 Mich
Detroit Broach Co 950 S Rochester Rd Rochester Mich
Detroit Cover Co 3410 W Fort St Detroit 16 Mich
DETROIT DIESEL ENGINE DIV GENERAL MOTORS CORP 13400 W Outer Dr Detroit 28 Mich
Detroit Gasket & Mfg Co 12640 Burt Rd Detroit 23 Mich
Detroit Gear Div Borg Warner Corp 12345 Kercheval Ave Detroit 14 Mich
Detroit Hoist & Machine Co 8216 Morrow St Detroit 11 Mich
Detroit Master Products Co 16490 Woodward Ave Detroit 3 Mich
Detroit Sleeve Mfg Co 9373 Hubbell St Detroit 28 Mich
Detroit Stamping Co 357 Midland Ave Detroit 3 Mich
Detroit Steel Corp P O Box 4308 Detroit 9 Mich
Detroit Steel Products Co Div of Fenestra Inc 6000 Caniff Ave Detroit 12 Mich
Detroit Surfacing Machine Co 1333 E Eight Mile Rd Detroit 20 Mich
Detroit Trailer Co 481 Beaufait St Detroit 7 Mich
Detroit Transmission Div General Motors Corp Willow Run Mich
Detroit Universal Div Chrysler Corp 6455 Kingsley Ave Dearborn Mich
DeVilbiss Co 300 Phillips Ave Toledo 1 Ohio
DeVilbiss Metal Lubricators Co 17900 Ryan Rd Detroit 12 Mich
Dewey & Almy Chemical Co 62 Whittemore Ave Cambridge 40 Mass
Diamond Chain Co 402 Kentucky Ave Indianapolis 7 Ind
DIAMOND T MOTOR TRUCK CO 4401 W 26th St Chicago 23 Ill
Diamond U Products 8459 Dearborn Ave South Gate Calif
Dicks Co C O 8544 Grand River Detroit 4 Mich
Dico Co 200 S W 16th St Des Moines 5 Iowa
Diehl Mfg Co Finderme Plant 1011 Finderme Ave Somerville N J
Diehl & Sons Inc 129 Atlantic Ave Richmond Hills 19 N Y
Diener Mfg Co Geo W 400 Monticello Ave Chicago 24 Ill
Diesel Control Corp 228 N Marine Ave Wilmington Calif
Diesel Energy Corp 143 Liberty St New York 6 N Y
Diesel Equipment Div General Motors Corp 2100 Burlingame Ave S W Grand Rapids 2 Mich
DIETZ CO R E 225 Wilkinson St Syracuse 1 N Y

before you buy any Steam Cleaner...

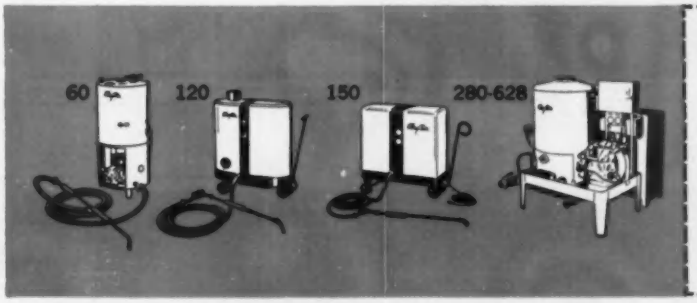
Fast, efficient steam cleaning depends on *results*—not claims or promises—and that's why Clayton, the world's largest producer of steam cleaning equipment, provides positive proof of performance on your own cleaning job.

Each of the 30 trucks of the Clayton Demonstrating Fleet is fully equipped to demonstrate all Clayton models right at your location. The Clayton factory-trained engineer can show you which size and type is best suited for your requirements and he can show you, too, the exact results obtainable on your own specific work. You can *judge for yourself* how well the Clayton Cleaner will work for *you;* you don't have to take anybody's word for it!

Of course, there's no cost or obligation for Clayton's proof of performance demonstration. Just ask your jobber to arrange it or mail the coupon below.

Clayton STEAM CLEANERS

A SIZE AND MODEL FOR EVERY JOB ASSIGNMENT—60 TO 600 GPH



213

Clayton MANUFACTURING CO.
433 NORTH TEMPLE CITY BOULEVARD
EL MONTE, CALIFORNIA

Gentlemen: We'd like to see the Clayton proof of performance demonstration on our cleaning job.

NAME_____
COMPANY_____
ADDRESS_____
CITY_____ZONE____STATE____

NEW FROM DODGE FOR 1960

NEW 89¾-INCH BUMPER-TO-BACK-OF-CAB DIMENSION ·

Here's a truck with the easiest service accessibility you've ever seen. Yet the front axle is out front where it belongs, for top payloads in "bridge formula" states. The cab is only 89¾ inches long, to permit maximum trailer lengths, but the driver sits safely behind the engine. It's the first truck to combine good cab and axle positioning with ideal service accessibility! And there's big news behind that square-shouldered radiator, too! Biggest news, of course, is Cummins diesel power teamed with Dodge for the first time! Four big new diesel engines, five new gasoline-powered V-8's, give a perfect engine choice for any hauling job. And there are new axles, new clutches, new transmissions, rugged new frames. 1960 Dodge Power Giants are available for prompt delivery, too—thanks to the nationwide network of Dodge Truck Centers. See your Dodge dealer.

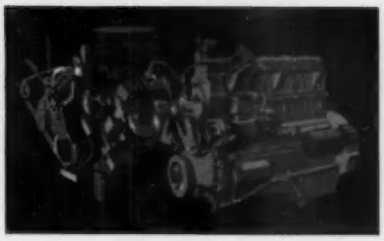
DEPEND ON DODGE TO SAVE YOU MONEY IN TRUCKS

A PRODUCT OF CHRYSLER CORPORATION

"JOB-RATED" FROM 4,250 LBS. G.V.W. TO 76,800 LBS. G.C.W.

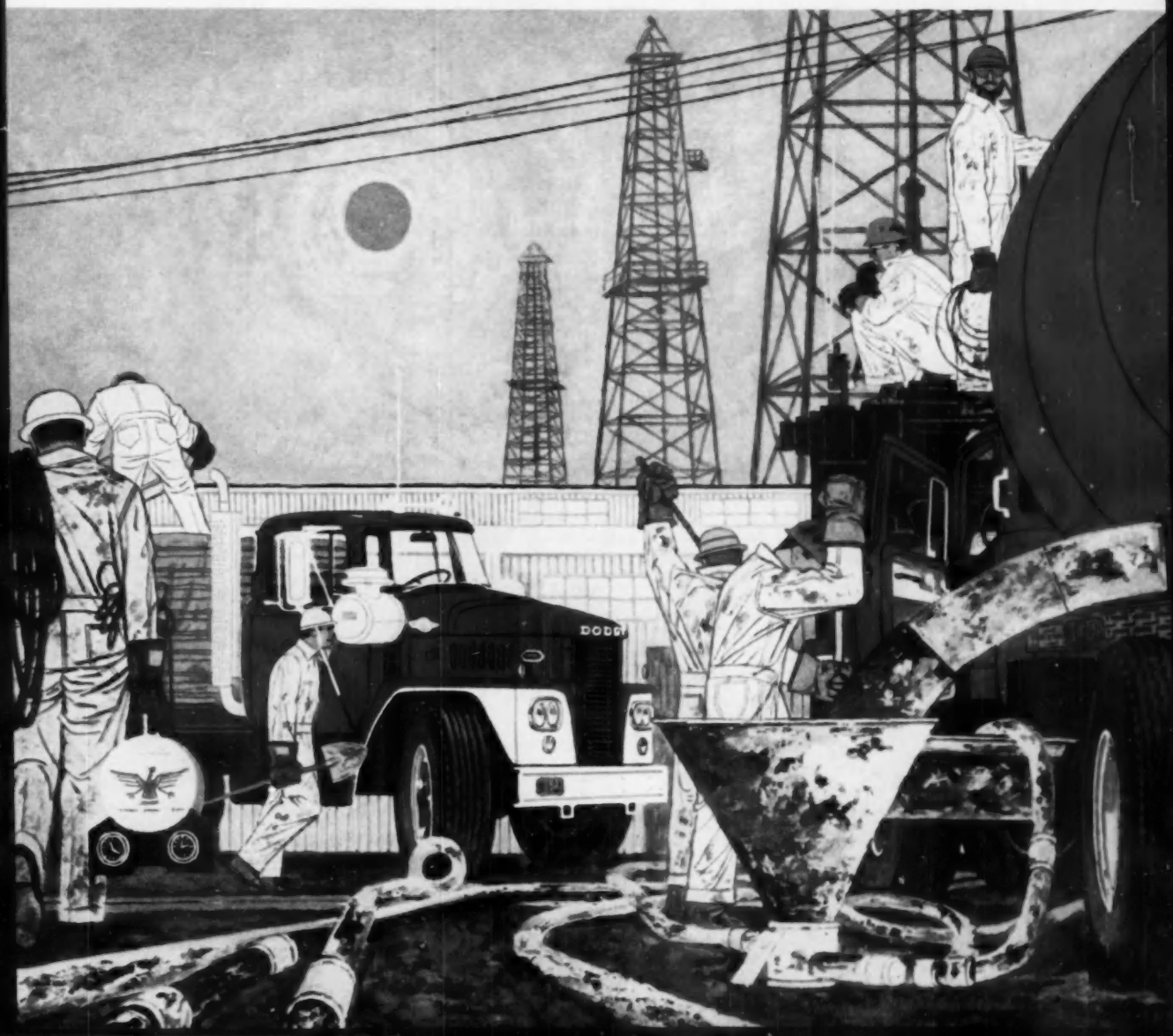
...HIGH-TONNAGE POWER GIANTS WITH NEW CAB-FORWARD DESIGN
NEW DIESEL OR GASOLINE ENGINES · NEW SERVI-SWING FENDERS

Haul Maximum-Length Trailers! Increase payloads, cut costs per ton-mile with new Dodge cab-forward design. Only 89¾ inches from bumper to back of cab.



Now . . . Cummins Diesel Engines! Four to choose from, with up to 743-cu. in. displacement, up to 220 horsepower. Five new gasoline-powered V-8's, too!

Servicing Was Never This Easy Before! Front fenders, hinged at the radiator, open with a simple latch, swing out to let you walk right up to the engine!



Differential to Elkhart

DIFFERENTIAL DUAL WHEEL DIV ANDERSON BOLLING MFG CO Grand Haven Mich
Dill Mfg Co 700 E 82nd St Cleveland 3 Ohio
Dillon & Co W C 14620 Keswick St Van Nuys Calif
Dittmer Gear Div Borg-Warner Corp Auburn Ind
Dittmer Gear Mfg Corp 193 Grand St Lockport N Y
DITZLER COLOR DIV PITTSBURGH PLATE GLASS CO 8000 W Chicago Ave Detroit 4 Mich
DIVCO TRUCK DIV DIVCO WAYNE CORP 22000 Hoover Rd Detroit 5 Mich
Diversey Corp 1820 Roscoe St Chicago 13 Ill
Division Lead Co 7742 W 61st Place Summit Ill
Dixie Jibo Co 2004 Mullanphy St St Louis 6 Mo
Dixie Tallyho Inc Fairburn Ga
Dixon Automatic Tool Inc 2300 23rd Ave Rockford Ill
Dixon Inc William 32 E Kinney St Newark N J
Dixon Crucible Co Joseph Manmouth & Wayne Sts Jersey City 3 N J
D'Nomlart Inc 100 Maple St Ashburnham Mass
Do All 254 N Laurel Ave Des Plaines Ill
Doan Mfg Div of Anchor Industries Inc 1725 London Rd Cleveland 12 Ohio
Dockson Corp 3839 Wabash Ave Detroit 8 Mich
DODGE DIV CHRYSLER CORP 7900 Joseph Campau Ave Detroit 31 Mich
Doehler Die Casting Co 386 Fourth Ave New York N Y
Doering Mfg Corp Al 99 Seacrest Ave Eltingville S I 12 N Y
Dole Refrigerating Co 5962 N Pulaski Rd Chicago 46 Ill
Dole Valve Co 6201 Oakton St Morton Grove Ill
Dollinger Corp 20 Center Park Rochester 3 N Y
Dolphin Paint & Varnish Co 922 Locust St Toledo 3 Ohio
Donaldson Co Inc 666 Pelham Blvd St Paul 14 Minn
Doran Inc James A 36 W Exchange Pl Providence 3 R I
Do-Ray Lamp Co Inc 1458 S Michigan Ave Chicago 5 Ill
DORMAN PRODUCTS INC 5757 Mariemont Ave Cincinnati 27 Ohio
Dorothea Mechanisms Inc Gale 39-39 63rd St Woodside L I N Y
DORSEY TRAILERS INC Elba Ala
Double Seal Ring Co 2065 Montgomery St Ft Worth Texas
Douglas Battery Mfg Co Winston Salem N C
Douglas Mfg Div Kingston Products Co Railroad St Bronson Mich
Douglass Motors Inc 1234 N 62nd St Milwaukee 13 Wis
Douglass Muffler Mfg Corp 5636 Shull St Bell Gardens Calif
Douglas Tool Co 5251 Pattison Ave St Louis 10 Mo
Dow Chemical Co Midland Mich
Dow Corning Corp Midland Mich
Dow Mechanical Corp Thompsonville Calif
Draw-Tite Co Belleville Mich
Dremel Mfg Co 2420 18th St Racine Wis
Drew & Co E T Automotive Chemicals Div 15 E 26th St New York 10 N Y
Druge Bros Mfg 888 92nd Ave Oakland 3 Calif
Dry Clime Lamp Corp 410 Mill St Greensburg Ind
Drying Systems Inc 1810½ Foster Ave Chicago 40 Ill
Dualheet Inc 3350 W 137th St Cleveland 11 Ohio
Du Bois Co 1120 W Front St Cincinnati 3 Ohio
Duff-Norton Co 2709 Peble Ave N S Pittsburgh Pa
Duffy Manufacturing Co Holland Mich
Du Mont Laboratories Inc Allen B 750 Bloomfield Ave Clifton N J
Dumore Co 1300 17th St Racine Wis
Duncan Co W H 319 Broadway New York 7 N Y
Dunlop Tire & Rubber Corp Sheridan Drive & River Rd Buffalo 5 N Y
Dunn Manufacturing Co 117 15th St Clarinda Iowa
Dunton C M W 7 Goff St Providence 3 R I
Duplex Div Warner & Swasey Co Hazel St Lansing 4 Mich
Duplex Truck Co Lansing Mich
Dupli Color Products 2440 S Michigan Ave Chicago 16 Ill
Du PONT de NEMOURS & CO E I FINISHES DIV Chemical Specialties Sales Wilmington 98 Del
du Pont de Nemours & Co E I Electrochemical Dept Wilmington 98 Del
du Pont de Nemours & Co E I Fabric Div Fairfield Conn
du Pont de Nemours & Co E I Finishes Div Refinish Sales Wilmington 98 Del
du Pont de Nemours & Co E I Grasselli Chemical Dept du Pont Bldg Wilmington 98 Del
Du PONT de NEMOURS & CO E I POLYCHEMICAL DEPT Zerone & Zerex antifreeze sales section Wilmington 98 Del
Dura Bilt Body Co Bldg No 8 National Dock East Boston 28 Mass
DURABLE MAT CO 75 N Pleasant St Norwalk Ohio
Dura Bond Bearing Co 715 Loma Verde Ave Palo Alto Calif
Dura Bond Engine Parts Co 3201 Ash St Box 85 Station A Palo Alto Calif
Dura Div Detroit Harvester Co 4500 Detroit Ave Toledo Ohio
Durakool Inc 1010 N Main St Elkhart Ind
Durbin Durco Inc 1435 Woodson Rd St Louis 14 Mo
DURKEE ATWOOD CO 215 Seventh St N E Minneapolis 13 Minn

DURKEE-ATWOOD WAREHOUSE LOCATIONS

ATLANTA, GEORGIA 279 Peters S. W. JA 3-7964
BOSTON (CAMBRIDGE 39), MASS. 50 Allston Street EL 4-4624
CHICAGO 16, ILL. 323 West Polk Street HA 7-2308
DALLAS, TEXAS 1103 Levee Street RI 2-2778
DENVER 5, COLO. 3041-51 Walnut St. SK 6-1286
DETROIT 19, MICH. 17327 Wyoming DI 1-2599
KANSAS CITY 8, MISSOURI 1817 McGee HA 1-0430
LOS ANGELES, CALIFORNIA 5738 Holmes DU 5-6813
NEWARK, NEW JERSEY 108-19 Polk Street MA 2-1580
OAKLAND, CALIF. 2201 West Street TE 2-3817
OMAHA 2, NEBR. 2226 Leavenworth St. AT 0240
PORTLAND 9, ORE. 230 East Burnside BE 2-0573
RICHMOND 21, VIRGINIA 2928 W. Leigh St. EL 8-4931
SALT LAKE CITY, UTAH 532 So. Third W. Street EM 3-1305
SEATTLE, WASHINGTON 952 East Seneca EA 2-1338
ST. LOUIS 3, MISSOURI 3225 Locust Street OL 2-5516

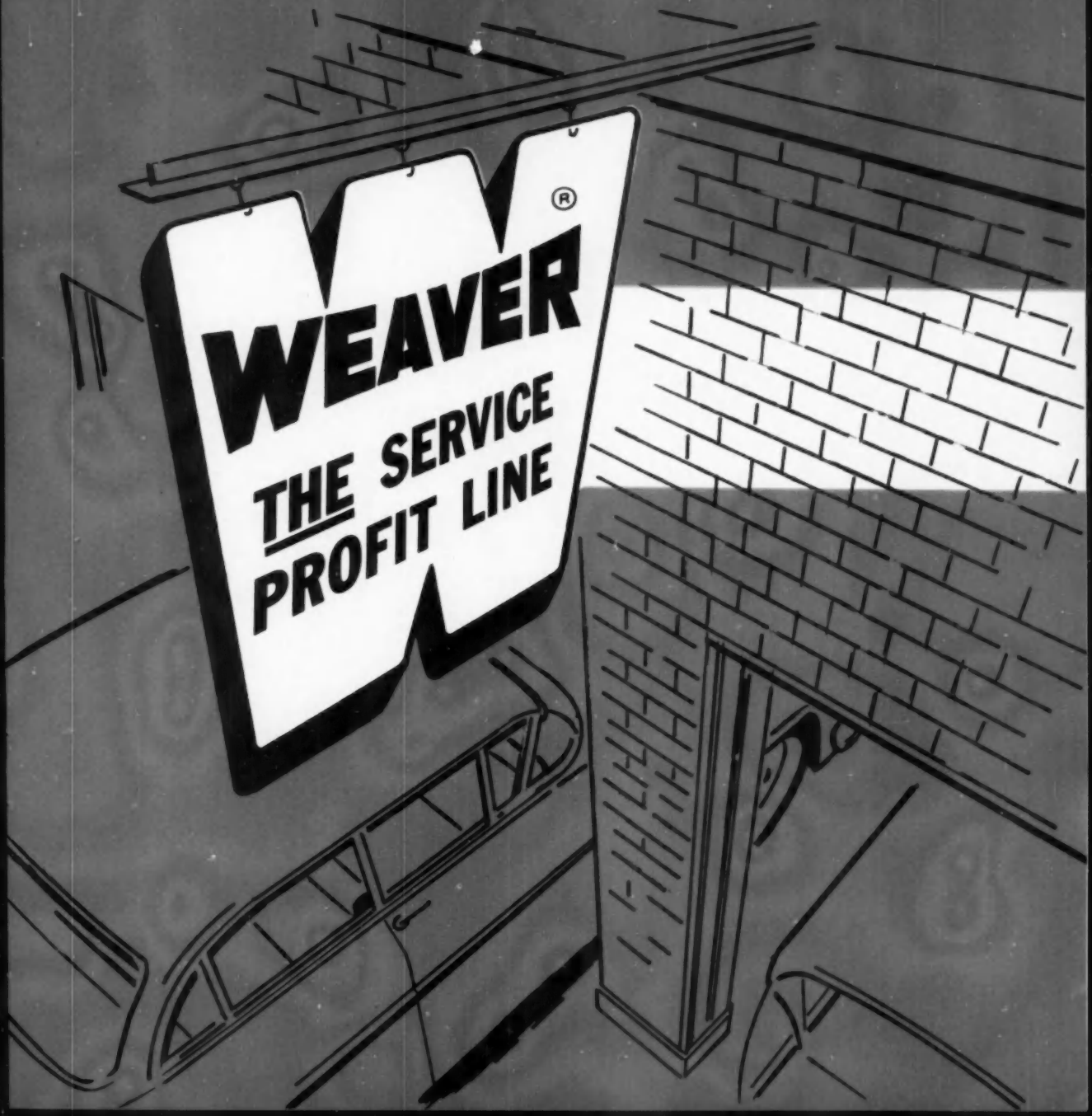
See page 300 for details

Durlach Can & Iron Works 360 Ninth St Brooklyn 15 N Y
Duro Metal Parts Co 2649 N Kildare Ave Chicago 39 Ill
Duroyd Gasket & Die Mfg Co 1828 Amsterdam Ave New York N Y
Dutton Lainson Co Mfg Div Hastings Nebr
Dynatron Corp 2545 N W 75th St Miami Fla
Dzus Fastener Corp Babylon L I N Y

E

Eagle Electric Mfg Co 23-10 Bridge Plaza South Long Island City 1 N Y
Eagle Lock & Screw Co S Main St Terryville Conn
Eagle Mfg Co Appleton Wis
Eagle Picher Co American Bldg Central Parkway Cincinnati 1 Ohio
East Akron Tarpaulin Co 1048 Bank St Akron 5 Ohio
Eastern Industries Inc 100 Skiff St Hamden Conn
Eastern Malleable Iron Co 112 Bridge St Naugatuck Conn
Eastern Stainless Steel Corp P O Box 1975 Baltimore 3 Md
Eastman Kodak Co 343 State St Rochester 4 N Y
Eastman Mfg Co 1440 W 24th St Manitowoc Wis
Easton Car & Construction Co Liberty & Holly Sts Easton Pa
East Penn Mfg Co Lyons Station Pa
Eaton Mfg Co 739 E 40th St Cleveland 10 Ohio
EATON MFG CO AUTOMOTIVE GEAR DIV S Eighth & C Sts Richmond Ind
EATON MFG CO AXLE DIV 739 E 140th St Cleveland 10 Ohio
Eaton Mfg Co Dynamatic Div 3122 14th Ave Kenosha Wis
EATON MFG CO HEATER DIV E 65th St & Central Ave Cleveland 4 Ohio
Eaton Mfg Co Pump Div 9635 French Rd Detroit Mich
Eaton Mfg Co Reliance Div 25 Charles Ave S E Massillon Ohio
EATON MFG CO SAGINAW DIV 1000 Rust St Saginaw Mich
Eaton Mfg Co Spring Div 9771 French Rd Detroit Mich
Eaton Mfg Co Stamping Div 17877 St Claire Ave Cleveland 10 Ohio
EATON MFG CO VALVE DIV 20th St Battle Creek Mich
Eaton Metal Products Corp 13th St & Willis Ave Omaha 2 Nebr
EBERHARD MFG CO DIV EASTERN MALLEABLE IRON CO 2734 Tennyson Rd Cleveland 4 Ohio
Echart-Trailock Div Otto Industries 931 Lehigh Ave Union N J
ECHLIN MFG CO P O Box 472 Branford Conn
Eclipse Fuel Engineering Co 1111 Buchanan St Rockford Ill
ECLIPSE MACHINE DIV BENDIX AVIATION CORP Elmira N Y
Econite Miracle Products Inc 207 W Main St Morganfield Ky
Economy Engineering Co 4511 W Lake St Chicago 24 Ill
Edelbrook Equipment Co 4921 W Jefferson Blvd Los Angeles 16 Calif
Edelmann & Co E 2332 Logan Blvd Chicago 47 Ill
Edward's Air Hose Bracket Co P O Box 860 Sapulpa Okla
Edwards Co Norwalk Conn
Edwards Co Inc O M Syracuse 4 N Y
Edwards Equip Co 4312 Main St Yakima Wash
EFFICIENT INSTRUMENT CORP 613 West 46th St New York N Y
EGAN MFG CO H B P O Box 1406 Muskogee Okla
Eidal Mfg Co 250 Woodward Rd S E Albuquerque N M
Eight Point Trailer Co 6100 E Washington Blvd Los Angeles 22 Calif
EIS AUTOMOTIVE CORP Middletown Conn
Elastic Stop Nut Corp of America 2330 Vauxhall Rd Union N J
Elco Lubricant Corp The Jenning Rd & Denison Ave Cleveland 9 Ohio
Elder Trailer & Body Inc 4830 Race St Denver 16 Colo
Electra Mfg Co 4051 Broadway Kansas City Mo
ELECTRIC AUTOLITE CO P O Box 931 Toledo 1 Ohio
ELECTRIC AUTOPULSE DIV WALBRO CORP 6240 Garfield St Cass City Mich
Electric Hose & Rubber Co 12th & Dure Sts Wilmington Del
Electric Products Co 1725 Clarkstone Rd Cleveland 12 Ohio
Electric Service Mfg Co 17th & Cambria Sts Philadelphia 32 Pa
Electric Service Systems Inc 1330 Quincy St N E Minneapolis 13 Minn
Electric Sprayit Div Thomas Industries Inc 14th & Illinois Sts Sheboygan Wis
Electrix Terminals & Connectors Inc 990 E 67th St Cleveland 3 Ohio
Electro Lift Inc 204 Sergeant Ave Clifton N J
Electro Mechano Co 261 E Erie St Milwaukee 2 Wis
Electro Products Co 445 E 189th St New York 58 N Y
Electroline Mfg Co 2622 E 51st St Cleveland 4 Ohio
Elgin Machine Works Inc 412 N State St Elgin Ill
Elgin Sweeper Co Elgin Ill
Elgin Tool Works 67 N State St Elgin Ill
Elkhart Brass Mfg Co 1302 W Beardsley Ave Elkhart Ind
Elkhart Welding & Boiler Works Inc 2132 S Main Elkhart Ind

bring more business IN...
take more profit OUT!



WEAVER LIFTS—A Complete Line—24 Models

In the complete line of Weaver Lifts you will find a size and model that will perfectly meet your requirements whether you service passenger cars, light, medium or heavy trucks, or giant tractor-trailer units. The Weaver line includes the famous Twin Post Lifts; Frame Type, Roll-On and Free-Wheel Single Post Lifts; and Triple Post Lifts, with a model designed to handle vehicles of every weight and wheelbase.

SINGLE POST LIFTS

New Weaver Swivel Arm Single Post Frame Lift with four-height adjustable adapters handles any American or foreign car or light truck. Lifts any vehicle at the manufacturers' recommended chassis pick-up points. In addition, Weaver has introduced a new Single Post "Low-Wide Runway" Roll-On Lift to handle all wheel treads. Also available: Front End Lifts, Transmission Handling Unit Lifts.

WEAVER AIR COMPRESSORS

There's a Weaver Air Compressor to exactly fit your requirements. A complete line of 69 models from 1/3 h.p. to 25 h.p., electric or gasoline operated, single stage and 2 stage, vertical or horizontal tank. Exceptional dependability, long service life, and low cost operation.

WEAVER

SINCE 1910

a complete line — and no

YOU'LL FIND IT

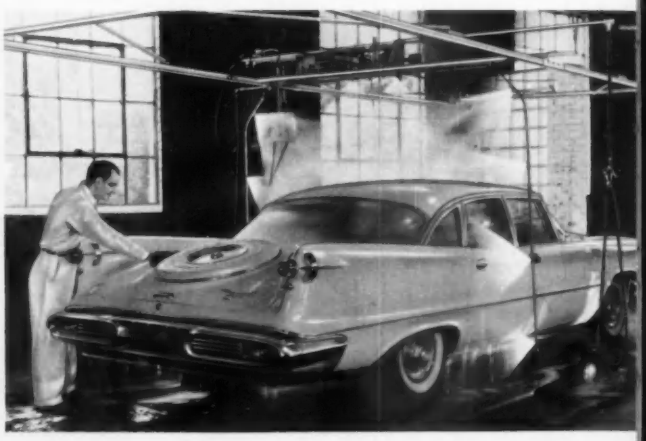
WEAVER WHEEL ALIGNMENT

Weaver offers the fastest and most accurate complete method for checking and correcting wheel alignment. Because Weaver offers a variety of "Rack Type", "Floor Level" and "On the Floor" outfits, you can start an alignment department at modest cost. Deluxe Twin Post Lift Wheel Alignment Outfit includes Weaver Twin Post Lift, and gives exceptional service flexibility. New Adjustable Tread Wheel Alignment Outfit takes any tread width from small sports cars to the new wide tread Pontiacs.

Weaver 3-Way Alignment Gauges, Turning Radius Gauges and Tru-Way Toe Gauge are precision-made and provide readings of unequalled accuracy.

WEAVER CAR WASHER

With the Weaver Automatic Overhead Car Washer you can handle twice as many cars as with manual washing. It is surprisingly low priced, easy to install. Automatic Timer controls Tempering, Detergent, Sponging and Rinsing cycles. Weaver Car Washer draws in other service business . . . customers for gasoline, oil changes, lube jobs . . . that mean extra profit, while increasing wash business.



TWIN POST® LIFTS

The versatile Weaver Twin Post Lift adjusts to desired wheelbase in seconds . . . lets you handle any car on the road today. During its more than 25-year history, no change of car size or design has ever made it obsolete. There are no rails in your way . . . every under-chassis point is readily accessible. You handle more cars per day, service them faster. Available in 4 sizes—8 models for full-range of lifting capacities. Air-Oil or Electric-Oil Operated (full hydraulic). Wheelbase adjustment range from 36″ minimum to unlimited maximum.

TRIPLE POST LIFTS®

Designed for fast, efficient servicing of heavy tractor-trailer units. Adjustable end posts can be positioned to accommodate wheelbase lengths of various tractor-trailer combinations. Unlike ordinary hoists, subject to off-center piston loading, the Weaver Triple Post Lifts loads are always directly over the pistons. Total lifting capacity of 54,000 lbs. Electric-Oil Operated, Full Hydraulic Type. Special (over 100,000 lb. capacity) lifts available for off-the-highway and other types of vehicles.

one builds it better than Weaver

WILL PAY TO *GO WEAVER ALL THE WAY!*

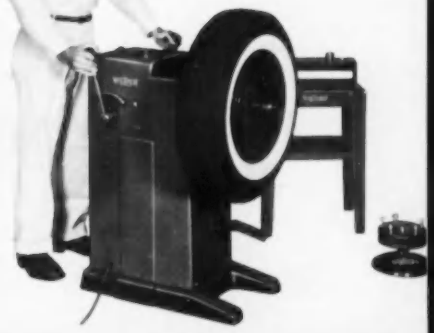
WEAVER SAFETY LANE EQUIPMENT

Headlight Testers • Weaver equipment is known throughout the world for accuracy and speed of operation. With the new Rayoscope Headlight Tester, headlights are aimed and tested entirely by instrument . . . there's no guesswork. New Weaver Photoscope Tester is inexpensive yet highly efficient, designed to be used close-up to vehicles. Both available in track-type and portable models. Official Inspection Station Models available.

Brake Testers • "Drive-On-And-Stop" Weaver Brake Testers are used by most of the Official Vehicle Inspection Stations throughout the world. They are faster to operate, provide maximum accuracy, are rugged and dependable. Total braking action and that of each wheel recorded automatically with the Weaver Brake-O-Graph. Vehicle drives on from either direction. Available in 8 models. (Illustration shows Combination Brake and Alignment Tester.)

WEAVER WHEEL BALANCING EQUIPMENT

The Weaver Dynamic Wheel Counterbalancer makes an immediate and accurate correction for wheel dynamic unbalance . . . eliminates "cut and try" methods. It balances the wheel while it spins, shows where to put the balance weights, how much weight to apply. Correction is completed in a few moments time. Weaver Dynamic Wheel Tester lets you make a "road test" in your shop . . . builds business for Counterbalancer.



HYDRAULIC TRANSMISSION JACK

Specially designed for removing and replacing truck transmissions, torque converters, truck differentials, passenger car transmissions. Built-in adjustments for side and fore-and-aft tilt of saddle. Highly maneuverable. Model WA-87.

LO-HI-DRAULIC JACKS

You'll find a complete range in the Weaver family of Lo-Hi-Draulic jacks —1 1/4, 1 1/2-ton service jacks, and 2, 4, 10 and 20-ton models with Quick Lift Lever pioneered by Weaver for easy saddle spotting and quick raising to load position. Most cars are raised by foot operation of Quick Lift Lever. Also available: Weaver Hydraulic Hand Jacks in 9 capacities, 1-1/2 to 100-tons.

In the complete Weaver line there is a jack to do every service job quickly and efficiently. The Weaver line includes hydraulic service jacks; hydraulic or air-operated bumper jacks; hydraulic transmission jacks; and 9 models of hydraulic hand jacks. Every Weaver Jack is designed for rugged and dependable service, built for easy, safe operation.

AIR-OPERATED BUMPER JACK

The WA-56 makes lifting the entire end of a car a fast, easy air-powered operation. Auxiliary rear wheels provide extra maneuverability, make it easy to position jack under lifting points. High lift-32¼". Also available: Model WA-52 Hydraulic Bumper Jack, and 2 Mechanical Bumper Jacks.

A COMPLETE FAMILY OF JACKS FOR EVERY JOB

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Indispensible equipment for supporting cars and trucks for "on the floor" service such as wheel and tire rotation, front end service, other chassis jobs. Ruggedly built for heavy-duty use. Four models: 3, 5, 10 and 14-ton capacity per pair.

WHEEL DOLLIES

Weaver Wheel Dollies speed handling of heavy wheels, make it easy to remove, replace and move them about. Dollies move smoothly on ball-bearing swivel-type casters. Wheel turns on roller arms for lining up bolt holes or keyways. Two sizes, 3 models.

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Product listings begin on page 79

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General Fire Truck Co 25631 Little Mack St St Claire Shores Mich
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Mike Humbert, President, J. W. Humbert, Inc., Green Springs, Ohio, checks the extra tread depth of a Cooper Road-Master Extra Mile truck tire.

Cooper tires average 110,000 original miles on drive wheels for Ohio operator

J. W. Humbert, Inc. operates 20 tractors and 34 trailer units out of Green Springs, Ohio. 356 Cooper truck tires are on the road every day moving general freight and steel products throughout the state. Cooper Road-Master Extra Mile tires are used on front and trailer wheels. Cooper Traction-Treads provide extra power and tread depth for low-cost drive wheel mileage.

Mike Humbert, President, reports: "Cooper Traction-Treads alone average over 110,000 original miles per tire, plus up to 2 and 3 bonus recaps. This is *more mileage* than delivered by the original tread and one recap compared to another major tire brand previously used. Cooper truck tires have really cut costs for us."

Super Strong Tire Cord

A modern new million dollar electronic mill is used to super-process Cooper "Hi-T" DuPont Nylon and Tyrex* cord to new dimensions of uniformity, compactness, and lasting strength. Cooper tire cord is actually stronger than steel cable, pound for pound — protects much better against bruises, breaks, and blowouts.

Built-In Shock-Guard, Too

Every Cooper truck tire is built with Shock-Guard construction to add still more strength. This exclusive Cooper feature puts protective layers of specially resilient breaker cord and cushioning rubber directly under the tread, at the shoulders, at the sides. The combination of super-strong Cooper "Hi-T" cord and Shock-Guard construction explains why Cooper truck tires run cooler, are practically damage-proof, deliver up to 45% more original mileage, give as many as 4 and 5 bonus recaps.

Start Saving Today

Cooper truck tires consistently cost less to buy, deliver more original and bonus recap mileage to save you money. See your Cooper truck tire dealer for special prices. Or write Dept. 118 today. Cooper Tire & Rubber Company, Findlay, Ohio.

J. W. Humbert, Inc. uses Cooper Traction-Treads on the drive wheels of its 20 tractor units. Tires average 110,000 original miles, plus up to 2 and 3 bonus recaps.

Cooper TIRES

Cooper Tires

*Tyrex is a certification mark of Tyrex, Inc. for viscose tire cord.

GET MORE TIRE POWER

2 PROVED OVER SCORCHING ROADBEDS

Tire and roadbed temperatures were checked and recorded. Under the blazing Texas sun roadbed temperatures soared to 139°. But tires made with TYREX viscose tire cord easily withstood the punishment.

3 30,000 MILES LATER . . . STILL TREAD LEFT

Some tires failed from separation before testing was completed . . . couldn't be used or recapped. Tires containing TYREX viscose cord went to 30,000 miles . . . *had* tread left and *were* recappable.

1 TESTED UNDER BRUTAL OVERLOADS
An independent testing company recently put nylon truck tires and tires containing TYREX viscose cord through their paces under the most punishing conditions . . . at overloads up to 50% above Tire and Rim Standards.

Get more tire power . . . more miles per dollar . . . less downtime. Specify tires made with TYREX viscose tire cord—the tough new cord that makes any tire run cooler, softer, quieter and safer . . . without flat spotting.

4 TYREX VISCOSE CORD GIVES 21.7% LONGER TREAD LIFE Careful measurements of all tires showed: the rate of tread wear of 10 ply tires made with TYREX viscose tire cord was up to 21.7% better than *12 ply* tires made with nylon cord.

TYREX INC. *EMPIRE STATE BUILDING, NEW YORK 1, N.Y.*
**TYREX is a collective trademark of TYREX Inc., for viscose tire cord and yarn. TYREX viscose tire cord and yarn is also produced and available in Canada.*

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Gojer Inc Box 991 Akron 9 Ohio
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Goodall-Sanford Inc Reading Div Reading Mass
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GOODRICH INDUSTRIAL PRODUCTS CO B F 500 S Main St Akron 18 Ohio
Good Roads Machinery Corp Minerva Ohio
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GorDag Industries Inc 3954 Woodale Ave Minneapolis 16 Minn
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Graham Research Inc 666 22nd Ave N E Minneapolis 18 Minn
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Grapho Products Inc PO Box 8604 Lawrence Ind
Graton & Knight Co 356 Franklin St Worcester 4 Mass
Gravely Tractors Inc Dunbar W Va
Gray Co 60 11th Ave N E Minneapolis 13 Minn
Graymills Corp 3705 N Lincoln Ave Chicago 13 Ill
Grayson Tool Co 1412 W 2nd St Hastings Neb
Great American Industries Inc Rubatex Div Bedford Va
Great Dane Trailers Inc PO Box 1159 Savannah Ga
Great Lakes Steel Corp Tecumseh Rd Detroit 29 Mich
Great Lakes Tractor Co Mill St Rock Creek Ohio
Greb Co 181 Canton St Stoughton Mass
Green Ball Bearing Co 9518 Cassius Ave Cleveland 5 Ohio
Greenerd Arbor Press Co 41 Crown St Nashua N H
Greenfield Tap & Die Div United Greenfield Corp Sanderson St Greenfield Mass
Greenleaf Corp 512 Franklin Pittsburgh 21 Pa
Green Tweed & Co North Wales Pa
Greer Stop Nut Co 2622 W Flournoy St Chicago 12 Ill
GREY-ROCK DIV OF RAYBESTOS MANHATTAN INC Manheim Pa
Grico Two Axle Drive Co 19840 Eight Mile Road E Redford Station Detroit 19 Mich
Gries Reproducter Corp Beechwood Ave & Second St New Rochelle N Y
Griffin Lamp Co Shelby Miss
Grigg Specialty Tools 8103 Marbrisa Ave Huntington Park Calif
Grip Nut Co South Whitley Ind
Griswold Mfg Co F T Lancaster Pike Wayne Pa
Grizzly Brake Div 700 W Caroline St Paulding Ohio
Groov-Pin Corp 1125 Hendricks Causeway Ridgefield N J
Groove-Rite Tool Co 40300 Grand River Ave Novi Mich
Gross-Given Mfg Co 301 Chestnut St St Paul 2 Minn
GROTE MFG CO Madison Ind
Grover Mfg Corp 850 E Valley Blvd Gabriel Calif
Grover Products Co 1221 S Hope St Los Angeles 15 Calif
Guaranteed Parts Co Inc Auburn Rd Seneca Falls N Y
Guibert Steel Co 4001 Windgap Ave Pittsburgh 4 Pa
GUIDE LAMP DIV GENERAL MOTORS CORP Anderson Ind
GULF OIL CORP 1822 Gulf Bldg PO Box 1166 Pittsburgh 30 Pa
Guletta Co Charles 81-20 Cooper Ave Glendale 27 N Y
GUNITE FOUNDRIES CORP 302 Peoples Ave Rockford Ill
GUNK LABORATORIES INC 630 N Harlem Ave River Forest Ill
Gustin-Beacon Mfg Co 230 W 10th St Kansas City Mo
Guyan Machinery Co PO Box 150 Logan W Va
Gwilliam Co 360 Furman St Brooklyn 1 N Y

H

H H Mfgs 2224 Cerritos Ave Long Beach 6 Cal
H & H Products Mfg Co PO Box 2333 Terminal Annex Los Angeles 54 Cal
H & H Tube & Mfg Co 263 N Foreman St Detroit 17 Mich
H & P Die & Stamping Co 13945 Triskett Rd Cleveland 11 Ohio
Haartz Auto Fabric Co 3 Bridge St Newton 58 Mass
Haartz-Mason Inc 270 Pleasant St Watertown Mass
HACKNEY BROS BODY CO Goldsboro St Wilson N C
Hackney & Sons J A 400 Hackney Ave Washington D C
Ha Dees Heater Products Huppower Div Hupp Corp 7450 Melville Ave Detroit 17 Mich
Hadley Mfg Co 2221 Albion St Toledo 6 Ohio
Haertel Co Water 2840 Fourth Ave S Minneapolis 8 Minn
Hahn Motors Inc 400 S Third St Hamburg Pa
Haling Co 1061 First Ave Rochester Minn
Hall Products Div C M Hall Lamp Co 1035 E Hancock Ave Detroit 7 Mich
HALL TOLEDO INC 2931 South Ave Toledo 9 Ohio
Hamden Steel & Aluminum Co State & Edmund Sts New Haven Conn
Hamilton Caster & Mfg Co 1517 Dixie Highway Hamilton Ohio
Hamilton Co L L 23 N W 10th St Oklahoma City Okla
Hamilton-Wade Co 52 Haverhill St Brockton 62 Mass
Hamilton Tool Co Ninth & Hanover Sts Hamilton Ohio
Hamlin Metal Products Co 2741 Wingate Ave Akron 19 Ohio
Hammer Blow Tool Co 602½ Third St Wausau Wis
Hammond Machinery Builders Inc 1621 Douglas Ave Kalamazoo 54 Mich
Hampton Mfg Co Industrial Tape Div 111 Cedar St New Rochelle N Y
Hancock Diesel Service Co 300 Walnut St Findlay Ohio
Handy Button Machine Co 2255 S Rockwell St Chicago 8 Ill
Handy & Harmon 82 Fulton St New York 38 N Y
Hanna Engineering Works 1765 Elston Ave Chicago 22 Ill
Hannifin Corp 543 South Wolf Rd Des Plaines Ill
HANSEN MFG CO A L 5037 Ravenswood Ave Chicago 40 Ill
Hanson Clutch & Machinery Co Wall & Minami Sts Tiffin 15 Ohio
Hanson Co Harvey E Lake Blvd & Commercial St Paw Paw Mich
Hanson Van Winkle Munning Co Matawan N J
Hanson Whitney Machine Co 169 Bartholomew Ave Hartford 2 Conn
Harbor Plywood Corp Box 940 Aberdeen Wash
Hardie Mfg Co Mechanic St Hudson Mich
Hardinge Brothers Inc 1418 College Ave Elmira N Y
Hardy Mfg Corp W Pearl St Union City Ind
Harley Soap Co Pierce & Orthodox Sts Philadelphia 37 Pa

Product listings begin on page 79

HARNISCHFEGER CORP 4400 W National Ave Milwaukee Wis

P&H DIESELS

See pg. 177 announcing new model "H" Series P&H Diesel. 220HP—1500 LBS or only 6.82 LBS per B.H.P.

HARNISCHFEGER CORPORATION
P&H Diesel Engine Division
Crystal Lake, Illinois

Harrington Co Gravers Rd Turnpike Plymouth Meeting Pa
Harrisburg Truck Body Co Sheely Lane & P R R Mechanicsburg Pa
Harris Colorific Co 5501 Cass Ave N W Cleveland 2 Ohio
HARRISON RADIATOR DIV GENERAL MOTORS CORP Washburn & Walnut Sts Lockport N Y
HARTFORD MACHINE SCREW CO PO Box 1440 Hartford 2 Conn
Hartman Metal Fabricators Inc 133 Murray St Rochester 6 N Y
Hart Metal Products Corp 3306 Hammond St Elkhart Ind
Hartwell Aviation Supply Co 9035 Venice Blvd Los Angeles 31 Calif
Harvey Aluminum Co 19200 S Weston Ave Tarrance Calif
Harvey Industries 3776 W 152nd St Cleveland 11 Ohio
Haskelite Mfg Corp 701 Ann St N W Grand Rapids 2 Mich
HASTINGS MFG CO N Hanover St Hastings Mich
Hauschild Mfg Co F J 540 Main Street Oneonta N Y
Haviland Co Arnold 1008 S Jackson St Defiance Ohio
Hawkinson Co Winter St Minneapolis Minn
Hawk Tool & Engineeringn Co 20 W Washington St Clarkston Mich
Hayes Industries Inc Wildwood & Fern Aves Jackson Mich
Haynes Stelite Co 725 S Lindsay St Kokomo Ind
Haywood Industries PO Box 1004 Dayton 1 Ohio
Heald Machine Co 14 New Bond St Worcester 6 Mass
Hearne Bros National Bldg Detroit 26 Mich
Heckethorn Mfg & Supply Co PO Box 117 Dyersburg Tenn
Heet Div DeMert & Dougherty Inc 3001 W 47th St Chicago 32 Ill
Heifred Corp The Church & Elm Sts Willoughby Ohio
Heinemann Electric Co Pa Ave & Plum St Trenton 2 N Y
Heintz Co James C 3738 W 143rd St Cleveland 11 Ohio
HEIN WERNER CORP 1200 National Ave Waukesha Wis
HELI-COIL CORP 591 Shelter Rock Lane Danbury Conn
Heller Bros Co 865 Mt Prospect Ave Newark 4 N J
Heller & Co W C 1907 Wabash Ave Montpelier Ohio
Heller Tool Co Heller Dr Newcomerstown Ohio
Helms Industrial Development Co 220 S Kirk St West Lafayette Ohio
Hemmeter Corp 57 Evelyn Ave Mountain View Calif
HENDRICKSON MFG CO 8001 W 47th St Lyons Ill
Hendry Co C J 27 Main St San Francisco 5 Calif
Hennessy Sales Co Jack P 12 Depot Sq Englewood N J
Henry & Allen Inc 2 Wadsworth St Auburn N Y
Henry Mfg Co 1310 Marquette St Minneapolis Minn
Herbrand Div Bingham-Herbrand Corp Lake & Stone Sts Fremont Ohio
Hercules Mfg Co 1 Main Co Henderson Ky

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Bekaert Steel Wire Cord, virtually indestructible, yet fully resilient, is more than doubling truck tire life. No more impact breaks . . . matchless blowout protection . . . thousands of extra miles, original and retread . . . higher load capacity! Specify Bekaert Steel Wire Cord for lowest cost-per-mile performance. It's available in truck tires made by leading manufacturers.

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HERCULES MOTORS CORP 101 Eleventh St S E Canton 2 Ohio
Hercules Steel Products Co 500 Sherman St Galion Ohio
Herman Co Karl A 412 Fuller St N E Grand Rapids Mich
Herrmann Engrg Co 1405 Airway Glendale 1 Calif
HERTZ SYSTEMS INC 218 S Wabash Ave Chicago 4 Ill
Hesse Carriage Co 6700 St John St Kansas City Mo
Hesse & Eisenhardt Co 8959 Blue Ash Ave Cincinnati 42 Ohio
Hettrick Mfg Co Summit & Magnolia Sts Toledo Ohio
Hetzel Bros 1457 E Washington Blvd Los Angeles 21 Calif
Hewitt Metals Corp 12th St at Stanley Ave Detroit 8 Mich
Hewitt Robins Inc 666 Glenbrook Rd Stamford Conn
Hews Body Co 87 St John St Portland 4 Maine
Heyer Industries Inc 471 Cortland St Belleville 9 N J
Hickok Mfg Co 850 St Paul Rochester 1 N Y
Hi-Duty Products Corp 1801 S Hope St Los Angeles 15 Calif
Highland Machine Co 3215 Superior Ave Cleveland 14 Ohio
High Speed Hammer Co 313 Norton St Rochester 5 N Y
Highway Products Inc 800 Stow St Kent Ohio
Highway Safety Appliances Div of Napco Industries Inc 834 North Seventh St Minneapolis 11 Minn
HIGHWAY TRAILER CO 405 E Fulton St Edgarton Wis
Hillard Corp 113 W Fourth St Elmira N Y
Hill Auto Body Metal Co 700 W 6th St Cincinnati Ohio
Hill & Griffith Co 1262 State St Cincinnati 4 Ohio
Hilliker Werner Inc 6931 Lowell Blvd Denver 21 Colo
Hill Inc Walter P 22183 Telegraph Rd Detroit 19 Mich
Hill Nut Co 2620 W Flournoy St Chicago 12 Ill
Hilton Mfg Co 210 W Seventh St Los Angeles 14 Calif
Hinson Mfg Co Westfield Ave & Manges St Waterloo Iowa
Hisey-Wolf Machine Co Div Cincinnati Electrical Tool Co Galvin & Mt Hope Aves Cincinnati 4 Ohio
Hi-Shear Rivet Tool Co 2600 W 247th St Torrance Calif
Hite Mfg Co 1916 Dayton Blvd North Chattanooga 5 Tenn
Hjorth Lathe & Tool Co 12 Beacon St Woburn Mass
Hobart Bros Co Hobart Sq Troy 1 Ohio
Hobbs Co Clinton Co E 203 Chelsea St Everett 49 Mass
HOBBS TRAILER DIV OF FRUEHAUF TRAILER CO 609 N Main St Fort Worth 1 Texas
Hock Paints Inc Box 190 Phoenixville Pa
Hodell Chain Co Div of National Screw & Mfg Co 3924 Cooper Ave Cleveland 3 Ohio
Hoffman Auto Body Service Inc 1480 N Grant Ave Columbus Ohio
Hoffman E W & W G 200-11 Hollis Ave Hollis 12 N Y
Holby Body Co E 2010 Washington Ave N Minneapolis Minn
Holan Corp 4100 W 150th St Cleveland 35 Ohio
Holfast Rubber Co 1486 Lakewood Ave S E Atlanta 1 Ga
HOLLAND HITCH CO 430 W 18th St Holland Mich
HOLLEY CARBURETOR CO 11955 E Nine Mile Rd Warren Mich
Hollingshead Corp R M 840 Cooper St Camden N J
Hollywood Accessories Inc 12322 Exposition Blvd Los Angeles 64 Calif
Holmes Co Ernest 2505 E 43rd St Chattanooga Tenn
Holub Industries Inc 413 DeKalb Ave Sycamore Ill
Homan & Co Inc 511 Reading Rd Reading Cincinnati 15 Ohio
HOMESTEAD VALVE MFG CO HYPRESSURE JENNY DIV Narrows Run Rd Coraopolis Pa
Hood Refining Co PO Box 566 Manor Pa
Hoof Products Co 6543 S Laramie Ave Chicago 38 Ill
Hooker Electrochemical Corp 27 Iroquois St Niagara Falls N Y
Hooper Body Corp 31st St & Warwick Ave Newport News Va
Hoosier Tarpaulin & Canvas Goods Co Inc 1302 W Washington St Indianapolis 6 Ind
Hoover Ball & Bearing Co Ann Arbor Mich
Hope Metal Products Co 1688 Arabella Rd Cleveland 12 Ohio
Hope Webbing Co PO Box 1495 Providence 1 R I
Hopkins Mfg Co 428 Dayton Ave Emporia Kansas
HOPPENSTAND MOTORS INC Pearl & Elk Sts Albion Pa
Horn Co A C Products Finishes Div 10th St & 44th Ave Long Island City 1 N Y
Houdaille Industries Inc Buffalo Hydraulics Div 537 E Delavan Ave Buffalo 11 N Y
Hough Co The Frank G Sunnyside Ave Libertyville Ill
Houghton & Co E F 303 W Lehigh Ave Philadelphia 33 Pa
Houghton Laboratories Inc 4151 Russell St Olean N Y
Houser Engrg & Mfg Co 200 E Spring St Bluffton Ind
Howe Fire Apparatus Co 1402 W 22nd St Anderson Ind
Howell Industrial Truck Co 1083 Erie Cliff St Cleveland 7 Ohio
Howe Scale Co 3 Scale Ave Rutland Vt
Hoyt Electrical Instrument Works Inc 292 Main St Cambridge 42 Mass
Hubbard Mfg Co Farmland Ind
Hub City Iron Co 218 First Ave S W Aberdeen S D
Huber Warco Co 202 N Greenwood St Marion Ohio
HUCK MFG CO 2480 Bellevue Ave Detroit 7 Mich
Hudson Lamp Co 528 Elm St Kearney N J
Hudson Mfg Co Railroad & Institute Sts Conyers Ga
Huffman Mfg Co Automotive Div PO Box 310 Delphos Ohio
Hughes Keenan Div U S Air Conditioning Corp PO Box 360 Delaware Ohio
Humes Truck & Trailer Mfg Co 907 Franklin Ave Steubenville Ohio
Hunter Douglas Aluminum Corp 3016 Kansas Ave Riverside Calif
Hunter Engineering Co Hunter Ave & Ladue Rd St Louis 24 Mo
HUNTER MFG CO 30525 Aurora Rd Salon Ohio
Hunter Products Co Hunter Ave & Ladue Rd St Louis 24 Mo
Hunt Mfg Co Geo L 106 Commercial St Boscobel Wis
Hunt & Son C B 1913 E Pershing St Salem Ohio
Huot Mfg Co 550 Wheeler Ave St Paul Minn
Hurd Lock & Mfg Co 9689 Grand River Ave Detroit 4 Mich
Hutchens Industries Inc 1206 Western Ave Eau Claire Wis
Hutchens & Son Metal Products Inc 2332 E Division St Rd Springfield Mo
Hutchins Mfg Co 9728 Breckenridge Ave St Louis 14 Mo
Hutchinson Co 5931 St Vincents Ave Shreveport La
Hutson Div of Gibson-Homans Co Railroad & Institute Sts Conyers Ga
Hyatt Bearings Div General Motors Corp Harrison N J
Hyde Corp 2936 S Freeway Fort Worth Texas
Hyde Park Iron Works Co 931 E 51st St Brooklyn 3 N Y
Hydraulic Power Div Hydraulic Press Mfg Co 1000 Marion Rd Mount Gilead Ohio
Hydro-Air Cleaning Systems Inc 14731 Miles Ave Cleveland 28 Ohio
HYDRO AIRE DIV CRANE CO 3000 Winona Ave Burbank Calif
Hydro E-Z Pack Div of Hercules Galion Products Inc 605 S Market St Galion Ohio
Hygrade Products Div Standard Motor Products Inc 37-18 Northern Blvd Long Island City 1 N Y
Hyman C S E Concord St Fremont Ohio
Hynes Steel Products Co 3760 Oakwood Ave Youngstown Ohio
Hyster Co 2902 N E Clackamas St Portland 8 Ore
Hyster Co Martin Trailer Div 816 N East St Kewanee Ill

I

I-T-E Circuit Breaker Co 601 E Erie Ave Philadelphia 34 Pa
IDEAL CORP 435 Liberty Ave Brooklyn 1 N Y

Product listings begin on page 79

Ideal Industries Inc 1014 Park Ave Sycamore Ill
Ideal Mfg Co 1107 S 7th St Askaloosa Iowa
THE IDEAL SYSTEM CO 2437 West Pico Blvd Los Angeles 6 Cal
Idico Products Co 1 W 125th St New York 27 N Y
Igniter Co 1635 El Camino Real Redwood City Calif
Ignition-Ite Products Co P O Box 373 Downey Calif
Ilg Electric Ventilating Co 2850 Pulaski Rd Chicago 41 Ill
Illinois Accessories Co 317 E Ontario St Chicago 11 Ill
Illinois Bronze Powder Co 2015 S Clark St Chicago Ill
Illinois Testing Laboratories 420 N LaSalle St Chicago Ill
Illinois Tool Works 2501 N Keeler Ave Chicago Ill
Imco Mfg & Sales Co 10 E Lafayette Ave Baltimore 2 Md
Imerman Screw Products Co 6420 E Lafayette Ave Detroit 7 Mich
Immel Co 502 N Vermillion Streator Ill
IMPERIAL BRASS MFG CO 6300 W Howard St Chicago 31 Ill
Imperial Oil & Grease Co 6505 Wilshire Blvd Los Angeles 48 Calif
Independence Chemical Co 606 S Walter St Philadelphia 47 Pa
Independent Iron Works Eighth & Pine Sts Oakland 20 Calif
Independent Lock Co 49 Daniels St Fitchburg Mass
Independent Pneumatic Tool Co 175 State St Aurora Ill
Indestro Mfg Co 2649 N Kildare Ave Chicago Ill
Indiana Commercial Filters Corp 415 Indianapolis Ave Lebanon Ind
Industrial Chemical Products Co 3769 Bellevue Ave Detroit 7 Mich
Industrial Crane & Hoist Ingersoll Products Div 1536 S Paulina St Chicago 8 Ill
Industrial Products Div General Tire & Rubber Co Wabash Ind
Industrial Rubber Goods Co St Joseph Mich
Industrial Scientific Co P O Box 494 Fresno 9 Calif
Industrial Steel Tank & Body Works Inc 2533 Fourth St Berkeley 10 Calif
Ingersoll Kalamazoo Div Borg-Warner Corp 1810 N Pitcher St Kalamazoo Mich
INGERSOLL-RAND CO 11 Broadway New York 4 N Y
Ingersoll Steel Div Borg-Warner Corp P O Box 273 New Castle Ind
Inland Mfg Co 1108 Jackson St Omaha 8 Neb
Inland Mfg Div General Motors Corp 2727 Inland Ave Dayton 1 Ohio
Inland Rubber Corp 515 Newman St Mansfield Ohio
Inland Steel Co 30 W Monroe St Chicago 3 Ill
Insealtor Inc P O Box 146 Holly Mich
Instant Seal Corp 38th & Powelton Sts Philadelphia 4 Pa
Insul-Mastic Corp of America 7750 W 61st Place Summit Ill
Interchemical Corp Cotan Div 341 Oliver St Newark 5 N J
Inter-Continent Mfg Co 117 E 13th St Chicago 5 Ill
International Business Machine Corp 590 Madison Ave New York 22 N Y
International Conveyor & Washer Corp 652 E Fort St Detroit 26 Mich
International Equip Div Morrison Railway Supply Corp P O Box 185 Sta F Buffalo N Y
INTERNATIONAL HARVESTER CO 180 N Michigan Ave Chicago 1 Ill
International Metal Hose Co Ashford Ave Bellevue Ohio
International Metal Polish Co 1910 Quill St Indianapolis Ind
International Mfg Co 2512 Washington St Roxbury 19 Mass
International Nickel Co 67 Wall St New York 5 N Y
International Packing Corp Lake St Bristol N H
International Parts Corp 4101 W 42nd Pl Chicago 32 Ill
International Products & Mfg Co 1452 S Michigan Ave Chicago 5 Ill
International Refinol Co 6513 W Pershing Rd Berwyn Ill
Interstate Enamel & Varnish Co 323 W 15th St Indianapolis Ind
Ionia Mfg Co Div of Mitchell-Benthley Corp 121 S Dexter St Ionia Mich
Iron City Spring Co 2920 Smallman St Pittsburgh Pa
Irving Airchute Co Lexington Ky

Hypoid Single-Reduction Gears Make

TIMKEN-DETROIT® LIGHTWEIGHT TANDEMS FIRST CHOICE

for plus-profit payloads!

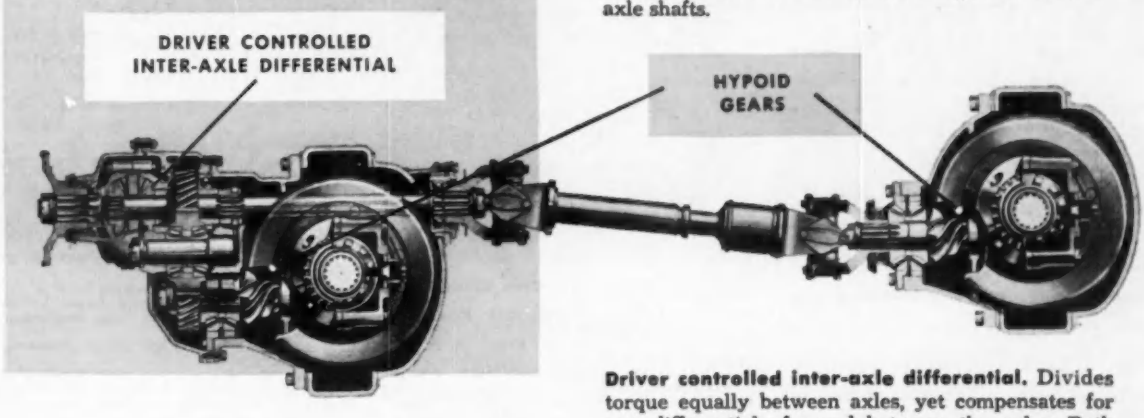
For more than three years Timken-Detroit Lightweight Tandems with Hypoid Single-Reduction Gears have been *first choice* with over-the-highway operators. Here are some of the reasons why:

Up to 700 lbs. lighter. Lighter in weight than other tandems currently available, Timken-Detroit's efficiency of design is unmatched in the industry. This not only means lower initial cost but *greater revenue from every payload.*

Hypoid gearing. Provides up to 30% more strength than spiral bevel gearing of the same size. Stronger design gives longer life and lower maintenance costs. To match hypoid gear performance, a spiral bevel gear must be larger and heavier.

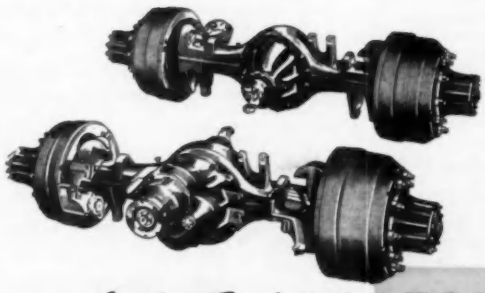
Widest choice of axle ratios. Because of the stronger hypoid gear set, it is practical to provide high numerical axle ratios up to 8.6 to 1. To provide axle ratios greater than approximately 7 to 1 with spiral bevel gearing, some form of auxiliary ratio multiplication is required. This increases both weight and cost.

"In-Line" through drive. Eliminates compound angles, and reduces drive line wear and maintenance. Differential carriers are centered to permit common axle shafts.



Driver controlled inter-axle differential. Divides torque equally between axles, yet compensates for any differential of speed between the axles. Both axles are always doing equal amounts of work. Can be locked out at any speed when poor traction conditions exist.

Tough, Torsion Flow Axle Shafts Are Best By Any Test. Don't be misled . . . patented Torsion Flow Axle Shafts are still the best available to the American Trucking Industry. Comparison tests prove that Timken-Detroit Axle Shafts, spline diameter for spline diameter, are the toughest ever made.



World's largest manufacturer of axles for trucks, buses and trailers

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J

J & J Machine Co 15420 St Clair Ave Cleveland 10 Ohio
J P Mfg Co 330 E Front St Youngstown 3 Ohio
J & S Carburetor Co 2634 N Beckley St Dallas 2 Tex
JACK-PACK MANUFACTURING CO 2115 N Marianna Ave Los Angeles 32 Cal
Jacobs Co F L 1043 Spruce St Detroit 1 Mich
Jacobsen Mfg Co 747 Washington Ave Racine Wis
Jaco-Lac Decal Co 234 S Wells Chicago 6 Ill
Jaeger Machine Co 550 W Spring St Columbus 16 Ohio
Jakes Foundry Co P O Box 1275 Nashville Tenn
Jambor Tool & Stamping Co 3057 N 30th St Milwaukee Wis
James Industries Inc Skaneateles N Y
Jamestown Finishes Inc 125 Blackstone Ave Jamestown N Y
Jannell & Son Body Co Cumberland Hill Rd Woonsocket R I
Janney Cylinder Co 7425 State Rd Philadelphia 36 Pa
Jari Products Inc 2938 Pillsbury Ave Minneapolis Minn
Jarrett Co Cecil H Mt Olive Rd Newton N C
Javis Corp Middletown Conn
Jax Mfg Co 480 Jackson St St Paul Minn
Jefferson Body Co 1711-3rd Ave S Birmingham 3 Ala
Jefferson Chemical 1121 Walker St Houston 2 Texas
Jenson and Mitchell Inc 400 New St Newark 3 N J
Jergans Tool Specialty Co 712 E 163rd St Cleveland 13 Ohio
JET-AER CORP Paterson 4 N J
Jetomatic Inc 150 Wakelle Ave Ansonia Conn
Jiffy Lubricator Co 3927 W Broadway Robbinsdale 22 Minn
Joanna-Western Mills Co 22nd & Jefferson Sts Chicago Ill
JOHNS-MANVILLE Box 14 New York 16 N Y
Johns-Manville, Dutch Brand Div 7800 Woodlawn Ave Chicago 19 Ill
Johnson Bronze Co South Mill St New Castle Pa
Johnson Glass & Plastic Corp 5248 Elston Ave Chicago 30 Ill
Johnson Products Inc 1185 E Keating Ave Muskegon Mich
Johnson Rubber Co Middlefield Ohio
S C Johnson & Son Inc Racine Wis
Johnson Welding & Mfg Co Rice Lake Wis
Jo-Line Tools Inc 8442 Otis St South Gate Calif
Jones & Laughlin Steel Corp 3 Gateway Center Pittsburgh 30 Pa
Jones Motorola Corp 432 Fairfield Ave Stamford Conn
Jones Products Co 1406 Massachusetts Ave Arlington 74 Mass
Jones Products Inc 276 Third St Cambridge 42 Mass
Jordan Electrical Products Div Electric Storage Battery Co 222 N 2nd St Minneapolis 1 Minn
Jordan Equipment Co 2526 Wood St Oakland 7 Calif
JORIN SPECIALTY CO 915 Old Town Road Clearfield Pa
Joyce-Cridland Co 2027 E First St Dayton 3 Ohio
Joy Mfg Co 333 Oliver Bldg Pittsburgh 22 Pa
Jubilee Mfg Co 1929 S 20th St Omaha 9 Neb

K

K & B Mfg Co 17 E Reno St Oklahoma City Okla
K C Fountain Brush Co 3718 Main St Kansas City 11 Mo
K-D LAMP CO 1910 Elm St Cincinnati 10 Ohio
K-D MFG CO 526 N Plum St Lancaster Pa
KW-Dart Truck Co 263 Oak St Kansas City 8 Mo
K & W Products Inc 8319 Allport Ave Whittier Calif
Kaalot Mfg Co 3927 N Kedzie Ave Chicago 18 Ill
Kaar Engrg Corp 2995 Middlefield Rd Palo Alto Calif
Kahlenberg Bros Co 1200 Monroe St Two Rivers Wis
KAISER ALUMINUM & CHEMICAL CORP 1924 Broadway Oakland 12 Calif
Kaiser Steel Corp 1924 Broadway Oakland 12 Calif
Kal-Equip Co 411 Washington St Otsego Mich
Kammel Products Corp 1619 Hart Place Brooklyn 24 N Y
Kane & Roach Niagara & Shonnard Sts Syracuse 4 N Y
Kano Labs 1000 S Thompson La Nashville 11 Tenn
Kapro Corp 2329 S Michigan Ave Chicago 16 Ill
Karpex Mfg Co 1436 E 19th St Indianapolis 7 Ind
Kason Hardware Corp 71 Wallabout St Brooklyn 11 N Y
Kastar Inc 200 Lincoln Ave New York 54 N Y
Kaustine Furnace & Tank Corp Perry N Y
Kay-Brunner Steel Products Inc 999 Meridian Ave Alhambra Calif
Kaydon Engineering Corp Muskegon Mich
Kay-Wood Products Inc Bedford Pa
Kaywood Products Corp 217 Clinton St Jackson Mich
Keco Industries Inc 2438 Beekman St Cincinnati 14 Ohio
Keehn-O Mfg Co 1709 Cleveland Ave Santa Rosa Calif
Keel & Co 65 W Penn St Philadelphia 44 Pa
Keep Klean Products Co 4077 Park Ave New York 57 N Y
Kehawke Mfg Co 718 Ellis St Muncie Ind
Kelite Corp 91 Industrial Road Berkeley Heights N J
Keller Tool Div Gardner Denver Co 1333 Fulton St Grand Haven Mich
Kelley Co 2129 W Mill Rd Milwaukee Wis
Kellogg Div American Brake Shoe Co Rochester 9 N Y
Kelly Mfg Co 503 Broad St Charleston 21 W Va
Kelly Ryan Equipment Co Blair Nebr
KELLY-SPRINGFIELD TIRE CO PO Box 300 Cumberland Md
Kelsey-Hayes Wheel Co 3600 Military Ave Detroit 32 Mich
Kemi-Kold Corp PO Box 5756 Orlando Fla
Kem Mfg Co 20-21 Wagaraw Rd Fair Lawn N J
Kendall Co Poly Ken Sales Div 309 W Jackson Blvd Chicago 6 Ill
KENDALL REFINING CO 77 N Kendall St Bradford Pa
Kennedy Car Liner & Bag Co Shelbyville Ind
Kennedy Mfg Co 501 N Monroe St Streator Ill
Kennedy Mfg Co N Harrison St Van Wert Ohio
Kennedy Service Tools Co 788 Evans Ave Akron 5 Ohio
Kennedy Tank & Mfg Co 833 E Sumner Ave Indianapolis 27 Ind
Ken-Nite Co 2926 Hancock Ave W Detroit 8 Mich
Kenoh Products Co 6785 Marion Ave Cincinnati Ohio
Kensico Tube Co Hubbell's Cross Rd Mt Kisco N Y
Kensington Wagon Works 2756 Frankford Ave Philadelphia 34 Pa
Kent Extinguisher Co 830 Front St N W Grand Rapids Mich
Kent-Moore Organization Inc 28635 Mound Rd Warren Mich
KEN-TOOL MFG CO 768 E North St Akron 6 Ohio
Kentucky Mfg Co 2601 Third St Louisville 8 Ky
Kenworth Motor Truck Co 8801 Marginal Way Seattle 8 Wash
Kerkling-Martin Inc San Fernando Calif
Kermath Mfg Co 5890 Commonwealth Ave Detroit 8 Mich
Ketter Truck Bodies 3rd & Ellison Ave Ironton Ohio
Kett Tool Co 5055 Madison Rd Cincinnati 27 Ohio
Kewanee Mfg Co 1642 Burlington Ave Kewanee Wis
Kewanee-Ross Corp Buffalo N Y
Kex Products Inc 4400 St Vincent Ave St Louis 19 Mo
Key-Hak Div Producers & Distributors Inc 1321 Hanover Ave Allentown Pa
Keysco Mfg Co 1244 E 12th St Oakland 6 Calif
Keystone Carbon Co 1935 State St St Marys Pa
Keystone Compressor Co 8407 Hegerman St Holmesburg Philadelphia 36 Pa
Keystone Gasket Mfg Co 833 N Fourth St Philadelphia 23 Pa
Keystone Reamer & Tool Co Millersburg Pa

Product listings begin on page 79

Keystone Roofing Mfg Co Franklin St & P R R York Pa
KEYSTONE TRAILER & EQUIPMENT CO 1501 Guinotte Ave Kansas City 20 Mo
Keystone View Co Hamilton & Crandall Sts Meadville Pa
Keystone Wagon Works Inc C St & Allegheny Ave Philadelphia 34 Pa
Kichaefer Mfg Co 901-903 S Second St Milwaukee 4 Wis
KIDDE & CO INC WALTER 675 Main St Belleville 9 N J

WALTER KIDDE & COMPANY, INC.
(See Page 99)
1112 MAIN STREET, BELLEVILLE 9, N. J.

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Newton Lower Falls 2300 Washington Street WOodward 9-8805

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Detroit.....20850 Coolidge Highway JOrdan 6-6388

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Philadelphia.....101 North 33rd Street BAring 2-8181

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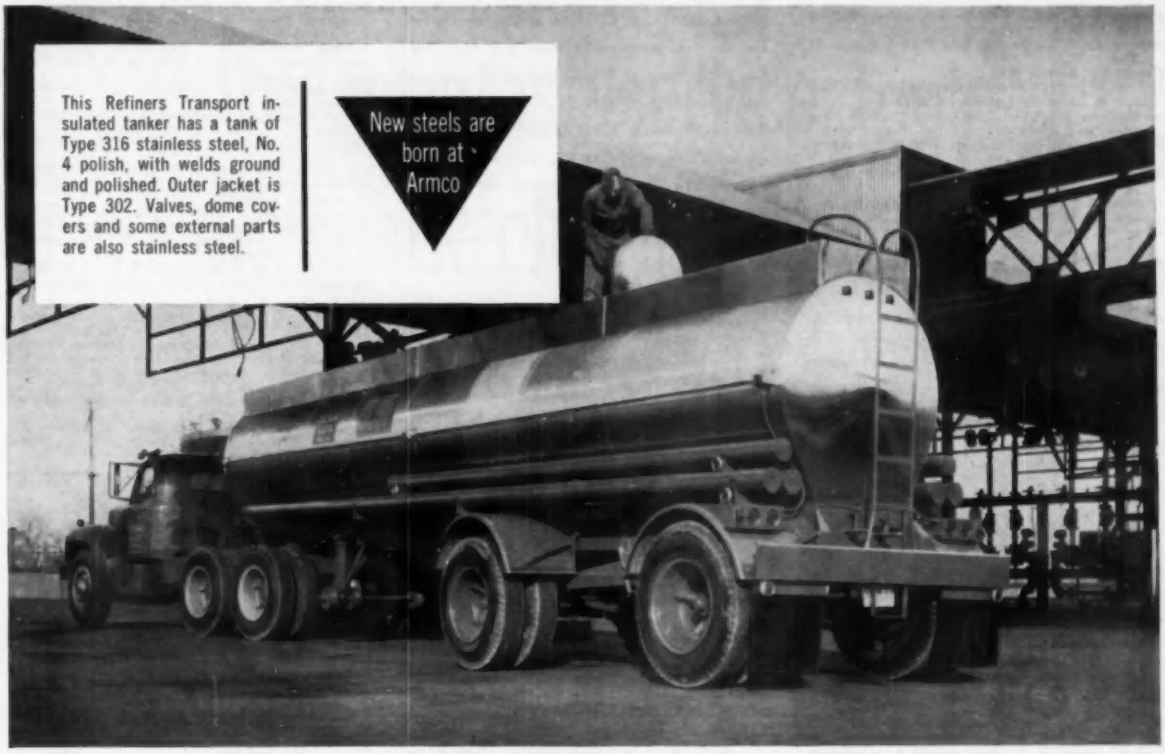
Kiene Diesel Accessories Inc 10352 Pacific Ave Franklin Park Ill
Kilborn Sauer Co Post Rd Fairfield Conn
Kiley Co James A 15 Linwood St Somerville Mass
KILGORE INC INTERNATIONAL FLARE SIGNAL DIV 200 E Broadway PO Box 31 Westerville 2 Ohio
Kimball Co A Rewe St Brooklyn 11 N Y
Kimble Glass Co PO Box 1035 Toledo 1 Ohio
Kimes Corp Harold E 1029 West Stephenson St Freeport Ill
KIM HOTSTART MFG CO 917 W Broadway Spokane 1 Wash
King Bee Manufacturing Co 2600 Washington Blvd Bellwood Ill
King Electric Equipment Co 9123 Inman Ave Cleveland 5 Ohio
King Graphite Products Inc Trenton Mich
Kingham Trailer Co Inc 15th & Hill Sts Louisville Ky
Kings County Centerless Grinding Co 555 36th St Union City N J
KING SEELY CORP 315 S First St Ann Arbor Mich
Kingston Products Corp 1400 N Webster St Kokomo Ind
KINNEAR MFG CO 2100 Fields Ave Columbus 16 Ohio
Kirk & Blum Mfg Co 3120 Forrer St Cincinnati 9 Ohio
Kirspel Industries Inc Livingston N J
Kitowski Mfg Co 611 First St N St Cloud Minn
Kitson Inc Arthur H 20818 Harper Ave Detroit 36 Mich
Klean Strip Co Box 3565 Memphis 6 Tenn
Kleen-Mor Mfg Co PO Box 8531 Jackson Miss
Kleer-Fol Co 250 W 57th St New York 19 N Y
Klein Body Co 3280 W 25th St Cleveland 9 Ohio
Kleinschmidt Inc County Line Rd Deerfield Ill
Klem Chemicals Inc 14401 Lanson St Dearborn Mich
Klemm Automotive Products Co 1718 N Damen Ave Chicago 47 Ill

Go Stainless/for a Versatile Fleet

Refiners Transport boosts payload profits with versatile stainless tank trailers



At Refiners Transport & Terminal Corporation, Detroit, Michigan, durable stainless steel tank trailers are reducing off-the-road time, trimming maintenance and cleaning costs. But most important, they're providing fleet versatility that means a greater variety of liquid cargoes, more return trip payloads.

Phosphoric acid, formaldehyde, ammonia, phthalic anhydride, paints, detergents, resins, and vodka are just a few of the food and chemical products hauled by Refiners Transport in their flexible stainless units.

According to C. C. Bingaman, operations manager, Refiners Transport specifies stainless for maximum versatility of insulated tankers. Tanks, outer jackets, dome covers, valves, and external lines are stainless steel. While resisting corrosive attack, the smooth, hard surface simplifies the cleaning so necessary when switching from chemicals like formaldehyde and ammonia to food products.

For more information on Armco Stainless Steel and its use in tankers, write Armco Steel Corporation, 3319 Curtis Street, Middletown, Ohio.

ARMCO STEEL

Armco Division • Sheffield Division • The National Supply Company • Armco Drainage & Metal Products, Inc. • The Armco International Corporation • Union Wire Rope Corporation

Kliegl to McGill

Kliegl Bros Universal Electric Stage Lighting Co 621 W 50th St New York N Y
Klopp Engrg Inc 35551 Schoolcraft St Levonia Mich
Knapheide Mfg Co 440 S 6th St Quincy Ill
Kneuer Tail Board Co 45 Sea Girt Ave Manasquan N J
Knowles-Fisher Corp Gowanda N Y
Koch & Son Mfg Co 200 Wilson Ave N E St Cloud Minn
Kocour Co 4800 S St Louis Ave Chicago 32 Ill
Koehring Co 3026 W Concordia Ave Milwaukee 10 Wis
Koenig Iron Works PO Box 7726 Houston 10 Tex
Kohler Co Kohler Wis
KOLD HOLD DIV OF TRANTER MFG INC 620 E Hazel St Lansing 4 Mich
Konigslow Mfg Co Otto 3600 Perkins Ave Cleveland Ohio
Koppers Co Metal Products Div 200 Scott St Baltimore 3 Md
Kravex Mfg Corp 634 Prospect Pl Brooklyn N Y
Krembs & Co 669 W Ohio St Chicago 10 Ill
Krome Co 39 Mulberry St Reading Pa
Krug Co North St Barnum Court Danbury Conn
Krumm Mfg Co T F 5150 Lewis Ave Toledo 12 Ohio
Krylon Inc Ford & Washington Sts Norristown Pa
Kuehn Co N L 407 W Highland Ave Milwaukee 3 Wis
Kurland Combinator Denver 3 Colo
Kwik-Ezee Inc 54 Brooklyn Ave Westbury N Y
Kwikheat Mfg Co 3732 San Fernando Bldg Glendale 4 Calif
Kwik-Mix Co 235 W Brand Ave Port Washington Wis
KYSOR HEATER CO Hynes St Cadillac Mich

L

L C Products Inc 2232 Alvord St Indianapolis 7 Ind
L & R Mfg Co 577 Elm St Kearny N J
L & S Bearing Co 6 S Pennsylvania Ave Oklahoma City Okla
Lacey & Sons Co W F 50 Mystic Ave Medford 55 Mass
La Crosse Trailer Corp 418 Gould St La Crosse Wis
Lagerquist Body Co 2nd & Keosauqua Sts Des Moines Iowa
Laharco Industries Inc 721 Second Ave N Minneapolis 3 Minn
LAHER SPRING & TIRE CORP 26th & Magnolia Sts Oakland 7 Calif
Laitner Brush Co 2000 Brooklyn Ave Detroit 26 Mich
LAKE AUTO RADIATOR MFG CO 5200 W 130th St Cleveland 30 Ohio
Lake Erie Machinery Corp 890 Woodward Ave Buffalo 17 N Y
Lake Erie Mfg Co 192 Chicago St Buffalo N Y
Lambert Inc 513 Hunter Ave Dayton Ohio
Lambert Inc Ansonia Ohio
Laminated Shim Co 62 Union St Glenbrook Conn
Lamson Mobilift Corp 835 S E Main St Portland 14 Ore
LAMSON & SESSIONS CO 5000 Tiedeman Rd Cleveland 9 Ohio
Landers Corp Buckingham & Blucher Sts Toledo 1 Ohio
Landis Machine Co Fifth & Church Sts Waynesboro Pa
Landis Tool Co Sixth & Ringold Sts Waynesboro Pa
Lane & Beane 2934 Arunah Ave Baltimore 16 Md
Lang Co 267 W First South St Salt Lake City 10 Utah
Lange Machine Works Henry G 156 N May St Chicago 7 Ill
Langlois Bros 717 S San Pedro St Los Angeles 14 Calif
Lansing Co 603 N Cedar St Lansing 3 Mich
Lapointe Machine Tool Co 34 Tower St Hudson Mass
Larson Tool & Stamping Co Olive St Attleboro Mass
La Salle Tool Inc 3840 E Outer Drive Detroit 34 Mich
LASCO BRAKE PRODUCTS CORP 2615 Magnolia St Oakland Calif
Las-Stik Mfg Co Wayne & B Sts Hamilton Ohio
Latex Fiber Industries Inc Beaver Falls N Y
Lauson Engine Div Tecumseh Products Co New Holstein Wis
Lavin Machine & Mfg Works A M Hatboro Pa
Lavo Co of America 1243 N 5th St Milwaukee 12 Wis
LAWLER CHEMICALS INC 3550 Touhy Ave Chicago 45 Ill
F H Lawson Co 801 Evans St Cincinnati 4 Ohio
Leader Screw & Mfg Co 3805 E 91st St Cleveland 5 Ohio
Lea Mfg Co 16 Cherry Ave Waterbury 20 Conn
LeBlond Machine Tool Co R K Madison & Edwards Rds Cincinnati 8 Ohio
Lectrolite Corp Hickory St Defiance Ohio
LEECE-NEVILLE CO 1374 E 51st St Cleveland 3 Ohio
Lee Co K O Congress at First S E Aberdeen S D
Lee Filter Corp 41 River Rd North Arlington N J
Lee Polish Mfg Co 1399 Utica Ave Brooklyn 3 N Y
LEE RUBBER & TIRE CORP Conshohocken Pa
Lehigh Chemical Co 10 Flatland Rd Chestertown Md
Lehigh Mfg Co Div of Lehigh Inc Lehigh Drive Easton Pa
Leland-Gifford Co 1001 Southbridge St Worcester 3 Mass
Lemert Engr Co 201 E Jefferson St Plymouth Ind
Lempco Products Inc 5490 Dunham Rd Bedford Ohio
Lenk Mfg Co Franklin Ky
Leonard Precision Products Co 10052 Larson Ave Garden Grove Calif
Leonard Spark Plug Co 148 Summit St Newark 3 N J
Le Roi Div Westinghouse Air Brake Co 1706 E 68th St Milwaukee 14 Wis
Leterstone Sales Co 2515 S Wabash Ave Chicago Ill
LeTourneau-Westinghouse Co Peoria Ill
Levene Motor Co 6245 State Rd Philadelphia 35 Pa
Lewgust Corp 4001 Dell Ave No Bergen N J
Lewis Engineering Co 339 Church St Naugatuck Conn
Lewis-Shepard Products Inc 125 Walnut St Watertown 72 Mass
Liberty Bell Mfg Co Swainsboro Ga
Lidseen of N C Inc 100 First St Hayesville N C
Lift Trucks Inc Spring Grove St Cincinnati 1 Ohio
Liggett Spring & Axle Co Monongahela Pa
Liggett Supply & Equipment Co 2030 S Main St Elkhart Ind
Lima Electric Motor Co Findlay Rd Lima Ohio
Lincoln Brass Works 2067 12th St Detroit 16 Mich
Lincoln Electric Co 22801 St Clair Ave Cleveland 17 Ohio
LINCOLN ENGINEERING CO 4010 Goodfellow Blvd St Louis 20 Mo
Lincoln Park Industries Inc 1719 Ferris Ave Lincoln Park 24 Mich
LINDE CO DIV OF UNION CARBIDE CORP 30 E 42nd St New York 17 N Y
Linderme Tube Co 1500 E 219th St Cleveland 17 Ohio
Lindsay Structure Div International Steel Co 1321 Edgar St Evansville Ind
Lindsay Structure Inc 5000 W Dempster St Skokie Ill
Lindy's Inc 3381 E Olympia St Los Angeles 46 Calif
Link-Belt Co 307 N Michigan Ave Chicago 1 Ill
Link-Belt Speeder Corp 1201 Sixth St S W Cedar Rapids Iowa
Link Engrg Co 13840 Elmira Ave Detroit 27 Mich
Lion Auto Parts & Mfg Co 1920 S Michigan Ave Chicago 16 Ill
Lion Oil Co El Dorado Ark
LIPE-ROLLWAY CORP 806 Emerson Ave Syracuse 4 N. Y.
Liquid Glaze Inc 704 Sheridan St Lansing 6 Mich
Liquidometer Corp 3920 Skillman Ave L I City N Y
Liquid Veneer Corp 215 E Ellicott St Buffalo 3 N Y
Lisle Corp 809 E Main St Clarinda Iowa
Little Giant Products Inc 1530 N Adams St Peoria 3 Ill
Littlefuse Inc 1865 Miner St Des Plaines Ill
Livingston Co 150 Amity Rd New Haven 15 Conn
Livingston Mfg Co 8438 Otis St South Gate Calif
Lloyd Chain Mfg Co 2000 E First St Marysville Mo
Load Stop Mfg Co 6750 Northwest 37th Ave Miami Fla

Product listings begin on page 79

Lodestar Corp S Main St Niles Ohio
Lodge & Shipley Co 3055 Colerain Ave Cincinnati 25 Ohio
Logan Co Cabel St Louisville 6 Ky
Logan Engrg Co 4901 W Laurence Ave Chicago 30 Ill
Logansport Machine Co Center Ave Logansport Ind
Long Mfg Div Borg-Warner Corp 12501 Dequindre St Detroit Mich
Long Trailer Service Goldsmith & McKov Sts Greenville S C
Lonn Mfg Co 2017 W 18th St Indianapolis 7 Ind
R J Loock & Co 343 N Gay St Baltimore Md
Loomis Machine Co E Fourth St Claire Mich
Lord Chemical Co 2068 S Queen St York Pa
Lord Mfg Co 1635 W 12th St Erie Pa
Loreman Products Moore & Division Sts Salisbury Md
Lostro Inc 2930 E Highland Ave Cincinnati 12 Ohio
Louden Machinery Co 1102 West Ave Fairfield Iowa
Lubaid Co 3270 S Third St Milwaukee 7 Wis
LUBER-FINER INC 2514 S Grand Ave Los Angeles 7 Calif
Luboid Co 3270 S Third St Milwaukee 7 Wis
Lubrication Engineers Inc Fort Worth Texas
Lubri-Gas International Inc 221 N LaSalle Street Chicago 1 Ill
Lubri-Loy Co 6319 Wilson St St Louis 10 Mo
LUBRIPLATE DIV FISKE BROS REFINING CO Newark 5 N J
Lucas Mfg Corp 309 S Union St Kokomo Ind
Lucker Mfg Co 331 N 4th St Phila 6 Pa
Lufkin Foundry & Machine Co Lufkin Texas
Lufkin Rule Co 1730 Hess Ave Saginaw Mich
Luma Electric Equipment Co P O Box 132 Toledo 1 Ohio
Lumidor Mfg Co 4801 E 50th St Los Angeles 58 Calif
Luminator Inc 120 N Peoria St Chicago 80 Ill
Lummis Mfg Co 2242 E Foothill Blvd Pasadena 8 Calif
Lundell Mfg Co Cherokee Iowa
Lunkenheimer Co Beekman St & Waverly Ave Cincinnati 14 Ohio
Lusco Inc 5915 Bonna Ave Cleveland 3 Ohio
Lusk Co C F 5918 Bonna Ave Cleveland Ohio
Luthy Co F A 302 Cooper St Jackson Mich
Lydon-Bricher Mfg Co 2500 University Ave St Paul 14 Minn
LYNCOACH & TRUCK CO INC Oneonta N Y

LYN Truck Bodies

LYN aluminum bodies come in 45 standard sizes . . . 3 body styles. See Page 311 for details.

LYNCOACH & TRUCK CO., INC.
Oneonta, New York

Lyon Metal Products Inc 2931 Montgomery St Aurora Ill

M

MacKenzie Muffler Co 460 N Meridian Rd Youngstown 9 Ohio
MacLean-Fogg Lock Nut Co 5535 N Walcott Ave Chicago 40 Ill
MacMillan Petroleum Corp 530 W 6th St Los Angeles 13 Calif
McBee Co Athens Ohio
McCabe-Powers Auto Body Co 5900 N Broadway St Louis 15 Mo
McCord Corp Riopelle at E Grand Blvd Detroit 11 Mich
McCreary Tire & Rubber Co Box 700 Indiana Pa
McCrosky Tool Corp S Main St Meadville Pa
McCulloch Motors Corp 6101 W Century Blvd Los Angeles 45 Calif
McDonald Mfg Co A Y 12th & Pine Sts Dubuque Iowa
McDougall-Butler Co 2929 Main St Buffalo 14 N Y
McGill Mfg Co Bearing Div 259 Indiana Ave Valparaiso Ind

Announcing

the greatest service tool
in spark plug history . . .

the CHAMPION

PLUG-SCOPE

At last...a way to check

Champion "Plug-Scope" spark plugs in seconds

With just four fast connections you analyze a whole set of spark plugs electronically—in less than 60 seconds! You can use the "Plug-Scope" anywhere . . . and it's easy to use. Ten minutes practice makes anyone an expert. Here's the story . . .

The Champion "Plug-Scope" is a portable transistorized oscilloscope. Small and light, it can be used anywhere, because it's powered by the vehicle's battery. The "Plug-Scope" electronically measures the voltage required to fire each spark plug and shows it as a line or trace on the screen. (You test a whole set of plugs at once after making just four fast connections.) The basic patterns illustrated below show you just how easy it is to read the "Plug-Scope."

NEW SPARK PLUGS

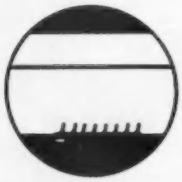
New plugs make fairly even traces, well below the warning line. As gaps grow through wear, the amount of voltage required grows greater and the traces become higher.

SATISFACTORY

The plugs making this pattern probably have several thousand miles on them, but their gaps are not yet so wide as to put the traces above the red warning line.

UNSATISFACTORY

Traces above the red warning line indicate plugs with excessive gaps—or other trouble in the ignition system. Low trace (3rd from right) is caused by fouled plug.



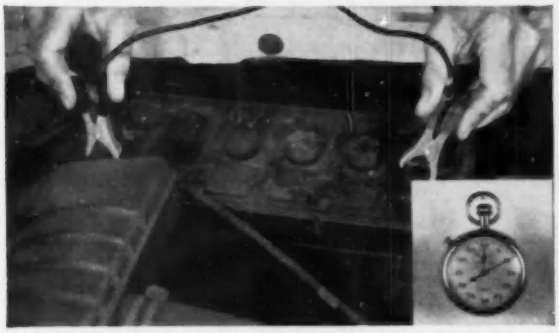
OTHER PATTERNS

The "Plug-Scope" also has other uses, such as indicating reverse coil polarity (above), loose or broken cables, worn ignition components, and checking voltage available from the ignition system.

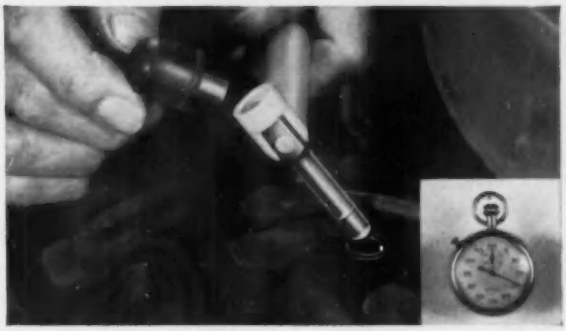
spark plugs right in an engine

lets you check a set of -without pulling a plug!

FOUR EASY STEPS TO USE THE "PLUG-SCOPE"

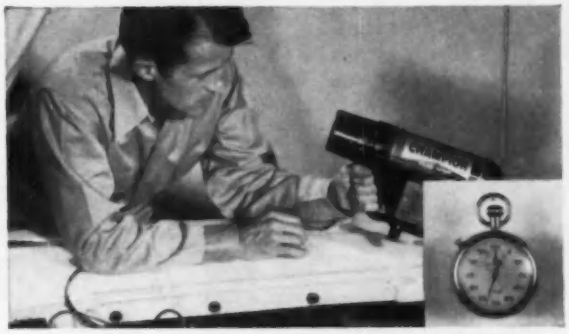


1 – First, connect "Plug-Scope" leads to battery terminals. Or, if more convenient, connect one "Plug-Scope" lead to *battery* terminal of regulator and the other to ground.



2 – Then insert third connector into the center tower of the distributor or the coil. This allows all plugs to be analyzed at the same time.

3 – Then you snap the fourth connector around *any* spark plug cable. If you know the firing order of the engine, you can even pinpoint which plugs need attention.



4 – Start engine. Suddenly floor accelerator and release immediately. Read traces at instant of acceleration. "Plug-Scope" has been connected, ready to read – in just 33 seconds!

The Champion "Plug-Scope" makes testing spark plugs virtually as easy as checking the oil and water. It gives you a fast, accurate way to pinpoint the units that really need spark plug service or replacement – and you don't take a chance on discarding plugs that are still serviceable! Best of all, the suggested price of the "Plug-Scope" is only $49.95*, with 50 Champion spark plugs at the regular price. See for yourself how a "Plug-Scope" can save time, cut maintenance costs and improve ignition performance in your fleet. Ask your regular Champion supplier for a "Plug-Scope" demonstration today!

DEPENDABLE
CHAMPION
SPARK PLUGS

**Suggested fleet operator and dealer price for "Plug-Scope" only. Spark plugs at regular 50-lot dealer price (minimum dealer price established by Fair Trade agreements in Fair Trade States).*

CHAMPION SPARK PLUG COMPANY • TOLEDO 1, OHIO

McGlaughlin to Milwaukee

McGlaughlin Oil Co 3750 E Livingston Ave Columbus Ohio
McGRAW-EDISON CO CLARK DIV 5201 W 65th St Chicago 38 Ill (Tropic-Aire—Coldmobile)
McKay Co 1005 Liberty Ave Pittsburgh 22 Pa
McKay Mfg Co John A Dunn N C
McKee Engineering Co The Corry Pa
McKee Glass Co Bullitt Ave Jeanette Pa
McLaughlin Body Co 2430 Third Ave Moline Ill
McQUAY-NORRIS MFG CO 2320 Marconi Ave St Louis Mo
M-B Corp 1615 Wisconsin Ave New Holstein Wis
M B Mfg Co 1060 State St New Haven 11 Conn
M D Parts Mfg Co 5247 Coffman-Pico Rd Pico Calif
M & E Mfg Co 2571 Winthrop Ave Indianapolis 5 Ind
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MACCHI & CO 818 Valencia St San Francisco 10 Calif
Machined Parts Corp 6209 Hamilton Ave Detroit 2 Mich
Machinical Air Controls Inc 10030 Capital Ave Detroit 37 Mich
Mack Products Co 15 Putnam St Winthrop Mass
MACK TRUCKS INC 1355 W Front St Plainfield N J
Mac's Super Gloss Co 6040 N Figueroa St Los Angeles 42 Calif
Maday Body & Equipment Corp 575 Howard St Buffalo 6 N Y
Madison-Kipp Corp 201 Waubesa St Madison Wis
Madison Mfg Co 687 W Clay St Muskegon Mich
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Magnesium Co of America 5222 Indianapolis Blvd East Chicago Ind
Magnetic Drain Plug Co Wellington Ohio
Magnetix Inc 101 S Van Brunt St Englewood N J
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Magnuson Products Corp 50 Court St Brooklyn N Y
Mahon Co R C 6565 E Eight Mile Road Detroit 34 Mich
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Mallory Electric Corp 12416 Cloverdale Ave Detroit 4 Mich
Mallory & Co P R 76 S Gray St Indianapolis 6 Ind
Mal Mfg Co 280 Flower Court Akron 4 Ohio
MALSBARY MFG CO 845 92nd Ave Oakland 3 Calif
Manbee Equipment Div Bear Mfg PO Box 607 Rock Island Ill
Manley Div American Chain & Cable Co York Pa
Manley Div Douglass Motors Inc 1234 N 62nd St Milwaukee 13 Wis
Manning Maxwell & Moore Inc Consolidated Ashcraft Hancock Div Stratford Conn
Manpro Corp 1360 Hilton R Ferndale 20 Mich
Mansfield Tire & Rubber Co 515 Newman St Mansfield Ohio
Manzel Unit of Houdaille Industries Inc 315 Babcock St Buffalo 10 N Y
Marathon Foundry & Machine Co 1212 West St Wausau Wis
Marchant Calculators Div Smith Corona Marchant 1475 Powell St Oakland 8 Calif
March Engrg Co Oshkosh Wis
Maremount Muffler Div Mar Pro Inc Maremount Bldg 168 N Michigan Ave Chicago 1 Ill
Marion Body Works Maris Wis
Marion Metal Products Co Cheyney Ave Marion Ohio
Marion Mfg Co N Main St at PRR Marion Ohio
Markal Co 3052 W Carroll Ave Chicago 12 Ill
Marlin Rockwell Corp 402 Chandler St Jamestown N Y
Marmon Herrington Co 1511 W Washington St Indianapolis 7 Ind
Marshall-Eclips Div Bendix Aviation Corp Box 538 Troy N Y
Marsh Co Charles W 32 Hudson St Muskegon Mich
Marson Corp 115 Mill Street Revere Mass
Marquette Div of Curtiss Wright 1145 Galewood Drive Cleveland 10 Ohio
Marquette Mfg Co Inc 307 E Hennepin Ave Minneapolis 14 Minn
Martin Co Glenn L Baltimore 3 Md
Martindale Electric Co 1340 Hird Cleveland 7 Ohio
Martin Senour Co 2500 Senour Ave Chicago 8 Ill
Marvel Industries Inc Sturgis Mich
Marvel Schebler Products Div Borg Warner Corp Decatur Ill
Maryland Mfg Co Laurel Md
Master Automotive Chemicals Inc 37 Preston Court Brooklyn 34 N Y
Master Co 37 Preston Ct Brooklyn 34 N Y
Mastercraft Trailers Inc Middlefield St Middletown Conn
Master Equipment Corp PO Box 55 Dayton 1 Ohio
MASTER FLEET WASHER DIV Acme Equipment Inc Central Trust Bldg Altoona Pa
Master Industries Inc 111 E Sixth St St Paul 1 Minn
Master Mfg Co 811 W Cabrini St Chicago 7 Ill
Master Parts Div Airtex Products Inc Fairfield Ill
Master Pneumatic Tool Co Krick Rd Bedford Ohio
Master Signal Co 1005 Sutton St Howell Mich
Master Specialty Co 3725 Monitor Ave Minneapolis 26 Minn
Master Tank & Welding 1612 Singleton Blvd Dallas 2 Texas
Matchless Electric Co 1700 Washington Blvd Chicago 12 Ill
Mather Spring Co PO Box 6695 Toledo Ohio
Matticks Mfg Co 4156 E Pacific Way Los Angeles 23 Calif
Maxi Corp PO Box 3129 Terminal Annex Los Angeles 54 Calif
Maxim Motor Co 170 Wareham St Middleboro Mass
Maxwell Dynamometer Co West Chester Pa
May Bros Mfg Co Inc 21300 Eureka Rd Taylor Mich
Mayer Body Corp Paulson & Auburn Sts Pittsburgh 6 Pa
Mayhew Steel Products Inc Shelburne Falls Mass
Mead Specialties Co 4114 N Knox Ave Chicago 14 Ill
MECHANEX CORP 1144 Broadway Denver 3 Colo
Mechanical Handling Systems Inc 4600 Nancy Ave Detroit 12 Mich
Mechanic's Tool & Forge Co Howard St Sabina 1 Ohio
Mechanics Universal Joint Div Borg Warner Corp 2020 Harrison Ave Rockford Ill
Medley Mfg Co 2008 E Slauson St Huntington Park Calif
Meeks Son S J 622 G St N W Washington 1 D C
Meiser & Co G H PO Box 208 Blue Island Ill
Melaire Distributing Co 11 W 42nd Street New York N Y
Melooz Mfg Co 4730 Avalon Blvd Los Angeles Calif
Melrath Supply & Gasket Co Tioga & Memphis Sts Philadelphia 34 Pa
Memco 1007 N W 36th St Oklahoma City 18 Okla
Mercedes Benz Sales Inc 635 S Main St South Bend 25 Ind
Mercer Rubber Co Hamilton Square N J
Mercury Aircraft Inc Hammondsport N Y
Mercury Electric Co 719 Wyandotte St Kansas City Mo
Mercury Mfg Corp 4700 W Division St Chicago 51 Ill
Mergraf Oil Products Co PO Box 95 Northville Mich
Merkert & Sons 146-10 Jamaica St Jamaica N Y
Merrill Axle & Wheel Service 12th & Acoma Sts Denver Colo
Mertens Mfg Co 1533 Hamilton Ave Racine Wis
Mesco Products 1131 Main St Crete Neb
Mesta Machine Co Box 1466 Pittsburgh Pa
Metalcraft Automotive Div Inc of Metalcraft Engrg Corp Box 386 North Side Branch Atlanta Ga
Metalcraft Mfg Co 1202 E 23rd St Indianapolis 4 Ind
Metal Engineering Co 134 N LaSalle St Chicago 2 Ill
Metalglass Laboratories Inc 2410 Packers Ave Madison 4 Wis
Metal Hose & Tubing Co W Clinton St Dover N J
Metallizing Engrg Co 1101 Prospect Ave Westbury N Y

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Metal Products Engineering Inc 4000 Long Beach Ave Los Angeles 58 Calif
Metals Body Works 1246 S Los Angeles 15 Calif
Metal & Thermit Corp Rahway N J
Metalwash Machinery Corp 901 North Ave Elizabeth 4 N J
Metcalf Bros & Co 45 E 17th St New York N Y
Meteor Motor Car Co 125 Clark Ave Piqua Ohio
Meter Master Products Corp Box 278 Defiance Ohio
Met-L-Wood Corp 6755 W 65th St Chicago 38 Ill
Metron Instrument Co 432 Lincoln St Denver 9 Colo
Meyer Body Co 218 Elm St Buffalo 3 N Y
MEYERCORD CO 5323 W Lake St Chicago 44 Ill
Meyer Products Inc 3599 E 82nd St Cleveland 5 Ohio
Miami Specialties Co W Trade Rd Troy Ohio
Mica Insulator Co Broadway Schenectady N Y
Michigan Crane & Conveyor Co 115 N McKinstry St Detroit Mich
Michigan Fleet Equipment Co 2350 Chicago Drive S W Grand Rapids Mich
Michigan Leather Products Co 6301 E Lafayette St Detroit 7 Mich
Michigan Steel Tube Products Div of Standard Tube Co 24400 Plymouth Rd Detroit 39 Mich
Mickey Body Co W F 105 Perry St High Point N C
Micromatic Hone Corp 8100 Schoolcraft Ave Detroit 38 Mich
Micro-Poise Engrg & Sales Co 14851 Grand River Ave Detroit 27 Mich
Mid Continent Petroleum Corp Tulsa 2 Ohio
Midland Mfg Inc 1100 S McComa's St Wichita 12 Kan
Midland Paint & Varnish Co 3801 E 91st St Cleveland 5 Ohio
MIDLAND-ROSS CORP CLEVELAND DIV Madison Ave & W 106th St Cleveland Ohio
MIDLAND-ROSS CORP DETROIT DIV 6660 Mt Elliott Ave Detroit 11 Mich
MIDLAND-ROSS CORP OWOSSO DIV 490 S Chestnut St Owosso Mich
Mid-States Welder Mfg Co 6025 S Ashland Ave Chicago 36 Ill
Mid West Abrasive Co 510 S Washington St Owosso Mich
Midwest Body & Mfg Div Electrographic Corp S Central St Paris Ill
Mid-West Dynamometer & Engineering Co 3100 River Rd River Grove Ill
MIDWESTERN GENERAL CORP Detroit 27 Mich
Midwest Generator Co 4004 W Ogden Ave Chicago 23 Ill
Mighty Mover Straddle Trailer Co 1701 E Louisiana St Denver Colo
Milbin Printing Co 132 W 22nd St New York 11 N Y
Miley Co L J 18 S Sangamon St Chicago 7 Ill
Milford Crane & Machine Co 143 Buckingham Ave Milford Conn
Milford Rivet & Machines Co Post Rd Milford Conn
L B Miller Co 336 W Main St Stamford Conn
Miller Div Wayne Works Inc Bellefontaine Ohio
Miller Electric Mfg Co 718 S Bounds St Appleton Wis
Miller Meteor Motor Car Div Divco Wayne Corp Bellefontaine Ohio
Miller Mfg Co 1100 N 32nd St Camden 5 N J
Miller Mfg Co 17640 Grand River Ave Detroit 27 Mich
Miller Rubber Co Div of B F Goodrich Co 500 S Main St Akron Ohio
Millers Falls Co 57 Wells St Greenfield Mass
Miller & Smith Mfg Co 500 Phoenix Ave N W Albuquerque N Mex
Miller Tool & Mfg Co 1725 16th St Detroit Mich
Miller Trailers Inc 333 Sixth Ave W Bradenton Fla
Miller Wood Products Co Greater Rockford Airport Rockfort Ill
Millington Truck Body Co 8440 N State St Millington Mich
Milsco Mfg Co 2758 N 33rd St Milwaukee 45 Wis
Milwaukee Brush Mfg Co 2236 N 30th Street Milwaukee 45 Wis
Milwaukee Dustless Brush Co 530 N 22nd St Milwaukee 3 Wis
Milwaukee Electric Tool Corp 5350 W State St Milwaukee 8 Wis

How you can cut fleet operating costs with

SHELL ROTELLA T OIL

20W-40—a new addition to the famous Rotella® Oils

1. It reduces starting trouble because Rotella T *20W-40* flows freely in a cold engine. Starts like a 20 grade . . . operates like a 30 and a 40.

2. It cuts engine wear—has effective dispersant action to keep engine parts clean.

3. It protects against hydraulic valve lifter trouble—guards vital parts against rust.

4. It simplifies oil inventory because it is actually 3 grades of oil in one. You need stock only the one oil for all operating conditions where SAE 20W, 30 or 40 is recommended.

That's why so many operators of large *and* small fleets are getting maximum performance and top economy with Rotella T *20W-40*. For complete information, write to Shell Oil Company, 50 West 50th Street, New York 20, New York, or 100 Bush Street, San Francisco 6, California. In Canada: Shell Oil Company of Canada, Limited, 505 University Avenue, Toronto 2, Ontario.

SHELL ROTELLA T OIL

SHELL

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Milwaukee Hydraulic Products Corp 800 S 108th St Milwaukee 14 Wis
MINER W H INC Rookery Bldg Chicago Ill
MINERALS & CHEMICALS CORP OF AMERICA Essex Turnpike Menlo Park N J
Mine Safety Appliances Co Braddock Thomas & Meade Sts Pittsburgh 8 Pa
Minit Man Inc 501 E Ten Mile Rd Royal Oak Mich
Minneapolis Freeman Mfg Co 5610 W 36th St Minneapolis 16 Minn
Minneapolis Honeywell Datomatic Div Newton Highlands 61 Mass
Minneapolis Honeywell Regulator Co Industrial Div Wayne & Windrim Aves Philadelphia 44 Pa
Minneapolis Moline Co Box 1050 Minneapolis 40 Minn
Minnesota Automotive Inc 1101 North Front Mankato Minn
MINNESOTA MINING & MFG CO 900 Bush Ave St Paul 6 Minn
Minn Kota Foundry & Mfg Co P O Box 576 Moorhead Minn
Miro Flex Co 1824 E 2nd St Wichita 7 Kansas
Mirro Aluminum Co Manitowoc Wis
Mirror Bright Polish Co 365 N Altadena Blvd Pasadena Calif
Mirrorlike Mfg Co 36th St & Queens Blvd Long Island City N Y
Mitchell Bradford Chemical Co Wampus Lane Milford Conn
Mitchell Co John E 3800 Commerce St Dallas Texas
Mitchell Metal Products Inc 6501 Cedar Ave Cleveland 3 Ohio
Mitchell & Smith Div Sheller Mfg Corp 8900 Hampton Rd Norfolk 5 Va
Mitchell Specialty Div Industrial Enterprises Inc Shelmire & Edmund Sts Philadelphia 36 Pa
Mixermobile Manufacturers Inc 8027 N E Killingsworth St Portland Ore
Mobile Power Co 400 Leland Pl Lansing Mich
MOBILE PRODUCTS DIV HUPP CORP Cleveland 10 Ohio
MOBIL OIL CO 26 Broadway New York 4 N Y
Modern Accessories Co 1526 Scott Blvd Covington Ky
Modern Auto Body Builders Co 200 Walworth St Brooklyn 5 N Y
Modern Engineering Co 3411 Pine Blvd St Louis 3 Mo
Modern Hydraulics Inc 130 W Grand Lake Blvd W Chicago Ill
Modern Machine Works Inc 5357 S Kirkwood Ave Cudahy Wis
Modern Paint Co 305 Eastern Ave Chelsea 50 Mass
Modine Mfg Co 1500 De Koven Ave Racine Wis
Moffatt Products Inc 3124 Washington Ave N Minneapolis 11 Minn
Moguloid Co of America 3520 W Carroll Ave Chicago 24 Ill
MOHAWK RUBBER CO 1235 Second St Akron 5 Ohio
Molded Fiber Glass Companies 4101 Benefit Ave P O Box 345 Ashtabula Ohio
Molded Materials Div Carlisle Corp Gillis Ave Ridgeway Pa
Moline Body Co 222 52nd St Moline Ill
Moline Tool Co 102 20th St Moline Ill
Moly Motor Products Corp 1155 Broadway New York N Y
Monadnock Mills 1977 First Ave San Leandro Calif
Monarch Electric Corp 118 E 1st St Jamestown N Y
Monarch Governor Co 2800 Tyler Rd Willow Run Mich
Monarch Insulated Wire Co P O Box 35 Teaneck N J
Monarch Mfg Co 1218 Santa Fe Ave Berkeley Calif
MONARCH ROAD MACHINERY CO 1331 Michigan St N E Grand Rapids 3 Mich
Monarch Rubber Co Hartville Ohio
Monarch Tool & Machinery Co 3235 S Racine Ave Chicago Ill
Monmouth Products Co 6545 Carnegie Ave Cleveland 3 Ohio
Monroe Auto Equipment Co 1426 E Front St Monroe Mich
Monroe Calculating Machine Co Morris Plains N J
Monroe Mfg Co 2525 S Dort Highway Flint 7 Mich
Monroe Standard Inc 217 Wyandot Bldg Galion Ohio
Montague Equipment Co Box 222 Urbana Ohio
Montgomery Co E R 2500 St Louis St New Orleans 19 La
Montgomery-Ward & Co Chicago Ave & Larrabee Chicago Ill
MONTPELIER MFG CO Montpelier Ohio
Moog Industries Inc 6565 Wells Ave St Louis 33 Mo
Moore & Co Samuel Mantua Ohio
MOPAR PARTS DIV CHRYSLER CORP 7000 E Eleven Mile Rd Centerline Mich
MORAINE PRODUCTS DIV GENERAL MOTORS CORP 1420 Wisconsin Blvd Dayton Ohio
MORCO INC 22201 Aurora Rd Redford Ohio

Reg. U. S. Pat. Off.
Scotchlite
Brand
REFLECTIVE SHEETING

Reg. U. S. Pat. Off.
Scotchcal
Brand
FILM

See these colorful products in action . . . see our ad on Pages 77-78. And for further information, contact the Branch Office nearest you:

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CALIFORNIA
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GEORGIA
732 Ashby Street, N.W., Atlanta 3

ILLINOIS
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MASSACHUSETTS
1330 Centre Street, Newton Center 59

MICHIGAN
8825 Grinnell Ave., Detroit 13

MINNESOTA
367 Grove Street, St. Paul 1

MISSOURI
10725 Baur Blvd., St. Louis 14

NEW JERSEY
700 Grand Ave., Ridgefield

Minnesota Mining and Manufacturing Co.
. . . where research is the key to tomorrow
St. Paul 6, Minnesota

Morganite Inc 3302 48th Ave Long Island City 1 N Y
Morgan Wheel & Equipment Co 2007 St Mary's Ave Omaha 2 Neb
Morris Machine Tool Co 933 Harriet St Cincinnati 3 Ohio
Morrison Bros Co 2401 Elm St Dubuque Iowa
MORRISON STEEL PRODUCTS INC 601 Amherst St Buffalo 7 N Y
Morris Paint & Varnish Co 1823 Washington Ave St Louis 3 Mo
Morse Body Mfg Co 69 Howard St Watertown 72 Mass
Morse Chain Co Div Borg Warner Corp Ithaca N Y
Morse Twist Drill & Machine Co 163 Pleasant St New Bedford Mass
Morton Mfg Co Broadway & Hoyt St Muskegon Heights Mich
Morrysville Body Works Inc 813 S Reading Ave Boyertown Pa
Motive Equipment Mfrs Inc 5253 Roosevelt Rd Chicago 50 Ill
MOTIVE SPECIALTIES DIV NUTMEG CHEMICAL CO 138 Haven St New Haven Conn
MOTO GARD CO 1104 W Carbarrus St Raleigh North Carolina
Motoraide Corp 2400 Emerald St Philadelphia 25 Pa
Motor Generator Corp Troy Ohio
Motor Kool Products Co 717 Bank St Columbus 6 Ohio
Motor Master Products Corp P O Box 278 Defiance Ohio
MOTOROLA COMMUNICATIONS & ELECTRONICS INC 4501 W Augusta Blvd Chicago 51 Ill
MOTOR WHEEL CORP 735 E Saginaw St Lansing 3 Mich

Motor Wheel's Centrifuse Brake Drums Wheels • Hubs
See pages 272-273 for the distributor in your area.
Motor Wheel Corporation
Lansing, Michigan

Moto Truc Co 1953 E 59th St Cleveland Ohio
Mt Vernon Woodberry Mills Inc Mercantile Trust Bldg N Y N Y
Mueller Brass Co 1925 Lapeer Ave Port Huron Mich
Mulconroy Co 54th & Jefferson Sts Philadelphia Pa
MULHOLLAND HARPER CO 5800 Tacony St Philadelphia 24 Pa
Multi Clean Products Inc 2277 Ford Parkway St Paul 16 Minn
Multi Color Process Co 317 S Quincy St Tulsa Okla
Muncie Parts Mfg Co 2601 S Jefferson St Muncie Ind
Mundet Cork Corp 7101 Tonnelle Ave North Bergen N J
Municipal Supply Co 2508 S Main St South Bend 32 Ind
Munton Mfg Co 9400 Belmont Ave Franklin Park Ill
Murchey Machine & Tool Co 12800 Puritan St Detroit Mich
Murphy Body Inc Herring Ave Wilson N C
Murphy Mfr Inc Frank W 3131 S Sheridan St Tulsa Okla
Murphy Phoenix Co Div of Phoenix Oil Co 9505 Cassius Ave Cleveland 5 Ohio
Murray Corp E Joppa Rd Towson 4 Md
Muskegon Piston Ring Co Muskegon Div Sixth & Alpha Sts Muskegon Mich
Mustang Motor Products Corp 635 W Colorado Blvd Glendale 4 Calif
Myers Tire Supply Co 816 E Market St Akron 5 Ohio
Mystik Adhesive Products Inc 2635 N Kildare Ave Chicago 39 Ill

Product listings begin on page 79

Now! get finest "new truck" batteries at your *WHITE* Superservice Shop

Now a complete new line of top-quality batteries is being made especially for WHITE original equipment. And those same batteries are available in WHITE SUPERSERVICE SHOPS as replacements!

Regardless of the make of truck, WHITE now has a top quality battery that's exactly *right* for it. So choose your replacement from the same original equipment line of 12-volt and 6-volt WHITE BATTERIES.

They perform longer, resist shock better . . . and the "WHITE" label means that your replacement battery is backed by WHITE with a full original-equipment guarantee! A typical example of the care and expert attention your truck receives in every WHITE SUPERSERVICE SHOP — the most completely equipped in the industry.

So for all replacements and top-grade accessory items, from power steering to fifth wheel, from tachograph to suspension kit, call on WHITE SUPERSERVICE. Enjoy that superiority, too, for reliable repairs and preventive maintenance. You'll be glad you did, in the long haul.

THE WHITE MOTOR COMPANY
CLEVELAND 1, OHIO
Branches, distributors, dealers in all principal cities

WORLD LEADER IN HEAVY DUTY TRUCKS

WHITE

Nabors to Pacific

N

Nabors Co W C Mansfield La
Namsco Inc 333 31st Ave Bellwood Ill
Nankervis Co George L 15300 Fullerton St Detroit 27 Mich
NAPCO INDUSTRIES INC HIGHWAY SAFETY APPLIANCE DIV 634 N Seventh St Minneapolis 11 Minn
NAPCO INDUSTRIES INC NAPCO AXLE DIV 634 N Seventh St Minneapolis 11 Minn
Narda Ultrasonics Corp 625 Main St Westbury Long Island N Y
Narrow Fabric Co Reading Pa
Nasa Tool Mfg Corp 3427 Locust Corner Rd Amelia Ohio
Nash Bros Co 2125 Dewey Ave Evanston Ill
Nason Products Div W. P Fuller & Co 450 E Grand Ave S San Francisco Calif
National Acme Co 170 E 131st St Cleveland 8 Ohio
National Adhesives Div National Starch Products Inc 270 Madison Ave New York 16 N Y
NATIONAL ANILINE DIV ALLIED CHEMICAL CO 40 Rector St New York 6 N Y
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National Brake Block Co 37-17 57th St Woodside 77 N Y
NATIONAL CARBON CO 30 E 42nd St New York 17 N Y
National Cash Register Co Dayton 9 Ohio
National Compress Corp 933 W Lake St Chicago 7 Ill
National Copper & Smelting Co 1862 E 123rd St Cleveland 6 Ohio
National Cylinder Gas Co Div of Chemetron Corp 840 N Michigan Ave Chicago 11 Ill
National-Detroit Inc 2810 Auburn St Rockford Ill
National Gas Equipment Co P O Box 122 Denison Texas
National Ignition Mfg Co 521 W 23rd St New York N Y
National Lead Co 111 Broadway New York 6 N Y
National Machine Products Co 44225 Utica Rd Utica N Y
National Machine & Tool Co 4077 Page Ave Jackson Mich
National Machine Works Inc 1800 S Broadway Oklahoma City 9 Okla
National Molded Products Inc 40 S St Mary's Street St Mary's Pa
National Pneumatic Co 125 Armory St Boston 19 Mass
National Refining Co Standard Bldg Cleveland 1 Ohio
National Rivet & Mfg Co Waupun Wis
National Screw & Mfg Co 2440 E 75th St Cleveland 4 Ohio
National Screw & Mfg Co Chester Hoist Div Lisbon Ohio
NATIONAL SEAL DIV FEDERAL-MOGUL-BOWER BEARINGS INC Broadway at National Ave Redwood City Calif
National Seating Co 167 Park Ave E Mansfield Ohio
National System of Garage Ventilation Inc 138 W William St Decatur Ill
National Truck Equipment Co 1611 Crystal Ave Kansas City 3 Mo
National Truck Leasing Systems 23 E Jackson Blvd Chicago 4 Ill
NATIONAL TUBE DIV United States Steel Corp Pittsburgh Pa
National Twist Drill & Tool Co Rochester Mich
National Vulcanized Fibre Co Maryland Ave & Beech St Wilmington 99 Del
National Welding Equipment Co 218 Fremont St San Francisco 5 Calif
Nauman Mfg Co R F 222 Chicago St Buffalo 4 N Y
Neapco Products Inc South & Cross Sts Pottstown Pa
Nedco Co 27 Jones Rd Waltham Mass
Neff Perkins Co 33 Stage St Painsville Ohio
Neiman Steel Equipment Co 2960 E Venango St Philadelphia 34 Pa
Neleco Products Inc 255 Medford St Malden 48 Mass
Nelmor Mfg Corp 26420 Lakeland Blvd Euclid Ohio
Nelson Mfg Co Ottawa Ohio
Nelson Muffler Corp Stoughton Wis
Nemco-Speedex Mfg Co Div of G C Textron Inc 418 S Wyman St Rockford Ill
Neway Equipment Co 1183 E Laketon St Muskegon Mich
New Britain Machine Co Hand Tools Div South St New Britain Conn
Newcomb-Detroit Co 5741 Russell St Detroit 11 Mich
New Departure Div General Motors Corp 269 N Main St Bristol Conn
New England Pressed Steel Co Washington Ave Natick Mass
New England Road Machinery Co 801 E 6th St Boston Mass
New Haven Carriage & Auto Works 508 N W Everett St Portland 9 Ore
Newman Machine Co 38 James St East Providence R I
New Plastic Corp 1017 N Sycamore Ave Los Angeles Calif
New Process Gear Div Chrysler Corp 500 Plum St Syracuse N Y
New Products Corp 3636 Oakton St Skokie Ill
New York Air Brake Co 230 Park Ave New York 17 N Y
New York Coil Co 42 Second Ave Phoenixville Pa
New York Rubber Co Airubber Div 100 Park Ave New York 17 N Y
New York Solder Co 684 E 133rd St New York 54 N Y
Niagara Fabric Mfg Co 161 Grand St New York 13 N Y
Niagara Falls Smelting & Refining Div Continental Copper & Steel Industries Inc 2204 Elmwood Ave Buffalo 23 N Y
Niagara Machine & Tool Works 683 Northland Ave Buffalo 11 N Y
Niagara Motors Corp Lampshire St Dunkirk N Y
Nice Ball Bearing Co 30th St & Hunting Park Ave Philadelphia 40 Pa
Nicholson File Co 23 Acorn St Providence 1 R I
Nik-L-Silver Battery Co 600 Terminal St Santa Ana Calif
Niederhut Carriage Co 3560 Walnut St Denver 5 Colo
Niehoff & Co C E 4925 Lawrence Ave Chicago Ill
Nikolas & Co G J 1227 Van Buren St Chicago 7 Ill
Niles Steel Tank Co Niles Mich
Nilsson Gage Products Inc Boice Rd Hyde Park N Y
Nixdorf-Krein Mfg Co 916 Howard St St Louis 6 Mo
Noco Co Box 783 Cleveland 22 Ohio
Noera Mfg Co Div of Chase Brass & Copper Co 236 Grand St Waterbury 20 Conn
Nogues Body Co 1332 S Ogden Drive Los Angeles 19 Calif
No-Kro Co PO Box 178 Chanute Kan
Nolvex File Co 10329 Detroit Ave Cleveland Ohio
Nordson Corp Jackson St Amherst Ohio
Norgren Co C A 3400 S Elati St Englewood Calif
Norlipp Co 5925 S Low Ave Chicago 21 Ill
Norma-Hoffmann Bearings Corp Hamilton Ave Stamford Conn
North American Electric Lamp Co 1520 N 13th St St Louis Mo
North American Smelting Co Marine Terminal Wilmington Del
Northern Engineering Works 210 Chene St Detroit 7 Mich
Northern Tube Co Pinconning Mich
Northwest Chemical Co 9310 Roselawn Ave Detroit 4 Mich
Norton Co 1 New Bond St Worcester 6 Mass
Novelty Carriage Works Inc 815 Second Ave Spokane 4 Wash
Novi Equipment Co Novi Mich
Nugent & Co Wm W 3440 Cleveland St Skokie Ill
F A Nugier Co 1748 Berkeley St Santa Monica Calif
NUTMEG CHEMICAL CO MOTIVE SPECIALTIES DIV 138 Haven St New Haven Conn
Nutting Truck & Caster Co 1201 W Division St Faribault Minn
Nu-Wipe-Lacquerwax Inc Webster's Mill 57 N Washington St Plainville Conn
Nylen Products Inc U S 12 Bridgman Mich
Nylok Corp 611 Industrial Ave Paramus N J

O

O K Tool Co Milford N H
OAKITE PRODUCTS INC 19 Rector St New York 6 N Y
Octagon Process Inc 15 Bank St Staten Island 1 N Y
Octane Chemical Co 3617 Haverford Ave Philadelphia 4 Pa
Ohio Body Mfg Co New London Ohio
Ohio Carbon Co 12508 Berea Rd Cleveland 11 Ohio
Ohio Decalcomania Co 4103 E 100 St Cleveland 5 Ohio
Ohio Hoist Mfg Co 321 S Beaver St Lisbon Ohio

Product listings begin on page 79

Ohio Oil Co Findlay Ohio
Ohio Parts Inc 307 Perry St Defiance Ohio
Ohio Piston & Machinery Co 5340 Hamilton Ave Cleveland 14 Ohio
Ohio Rubber Co 300 Ben Hur Ave Willoughby Ohio
Oildex Corp 418 E Second St Tulsa Okla
Oil-Dri Corp of America 520 N Michigan Ave Chicago Ill
Oilgear Co South 16th at West Pierce St Milwaukee Wis
Oilpure Refiner Sales Co (Oil Refiner) 507 Fifth Ave New York N Y
Oldberg Mfg Co 620 N Seventh St Grand Haven Mich
Oldsmobile Div General Motors Corp Lansing 21 Mich
Olin Mathieson Chemical Corp Industrial Chemical Div Mathieson Bldg Baltimore 3 Md
Olin Mathieson Chemical Corp Metals Div 400 Park Ave New York N Y
The Oliver Corp 400 W Madison St Chicago 6 Ill
A B Oliver Corp Farquhar Div 142 N Duke St York Pa
Oliver Iron & Steel Corp 1001 Muriel St Pittsburgh Pa
R P Olsen & Son 920 N 24th St Omaha Neb
J B E Olson Corp 1740 Broadway New York 19 N Y
Omaha Body & Equipment Co 3015 Taylor St Omaha 11 Neb
Omaha Standard 2401 W Broadway Council Bluffs Iowa
Omega Service Parts Corp Empire State Bldg 350 5th Ave New York 1 N Y
D W Onan & Sons Inc 2515 University Ave E Minneapolis 14 Minn
Oneida Products Div Henney Motor Co Canastota N Y
O'Neill-Irwin Mfg Co 514 Eight Ave Lake City Minn
Onsrud Machine Works Inc Machine Tool Div 7720 N Lehigh Ave Niles Ill
Orange Roller Bearing Co 557 Main St Orange N J
Orangeville Mfg Co Orangeville Pa
Oren Fire Apparatus Co 1201 W Salem Ave Roanoke Va
Oren Roanoke Corp 1201 W Salem Ave Roanoke Va
Oronite Chemical Co 38 Sansome St San Francisco 4 Calif
Orrville Body Co Orrville Ohio
Orrville Metal Specialty Co S Elm St & Penn Ave Orrville Ohio
Orschelin Brake Lever Mfg Co 355 N Williams St Moberty Mo
OSHKOSH MOTOR TRUCK INC 2390 Oregon St Oshkosh Wis
Osrow Products Co Hazel St Glen Cove N Y
Ottawa Steel Div L A Young Spring & Wire Corp 435½ S Main St Ottawa Kans
Ottawa Steel Products Inc 745 Woodlawn Ave Grand Haven Mich
Overbeke-Kain Co 20905 Aurora Ave Bedford Ohio
Overhead Door Corp PRR Kickapoo St Hartford City Ind
Owatonna Tool Co 341 Cedar St Owatonna Minn
Owens-Corning Fiberglass Corp National Bank Bldg Toledo 1 Ohio
Oxidermo Products Inc Springport Mich
Oxy-Catalist Inc Wayne Pa

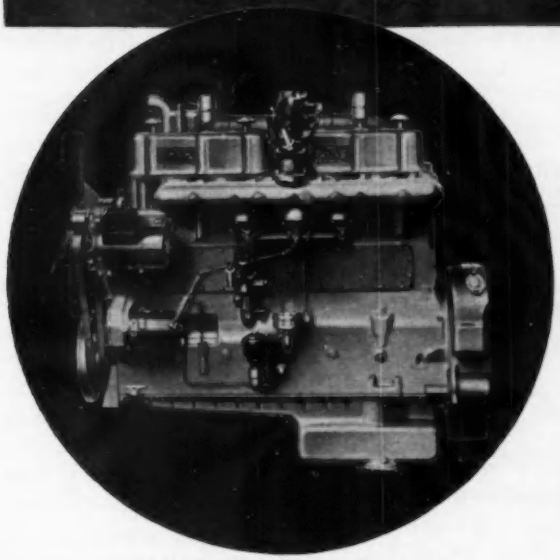
P

P & B Specialties Co 1406 Fairmount Ave Philadelphia 30 Pa
P & C Hand Forged Tool Co Box 5926 Milwaukie Ore
P & D MFG CO INC 1962 Steinway St Long Island City L I N Y
P & G Mfg Co 305 N E Russell St Portland 12 Ore
P & H DIESEL ENGINE DIV HARNISCHFEGER CORP 500 S Main St Crystal Lake Ill
P O B Mfg Co 3215 Colerain Ave Cincinnati Ohio
Paasche Airbrush Co 1909 Diversey Parkway Chicago 14 Ill
Pacific Car & Foundry Co Fourth & Factory Sts Renton Wash
Pacific Coast Brush Co 1509 Santa Fe Ave Los Angeles 21 Calif
Pacific Coast Engr & Iron Co Oak & Clement Sts Alameda Calif
Pacific Mercury Mfg Corp Mech Equip Div 14052 Burbank Blvd Van Nuys Calif

On the milk run

...OR ANY RUN

PETERBILT truck—tire size: 10.00 x 20; rear axle ratio: 5.91; gross vehicle weight: 76,800 lbs.—is powered with Waukesha 145-GZB engine.



Waukesha 145-GZB High Output Gasoline Engine, 5⅜-in. bore x 6-in. stroke, 817 cu. in. displacement, up to 260 hp at 2400 rpm.

where the pay-off is on pay-load

WAUKESHA *transport* ENGINES

Short runs or long hauls—the pay-off is on pay-load that gets there faster. A rare combination of extra power plus extra speed, with rugged reliability—the Waukesha 145-GZB High Output Engine keeps trucks on schedule with day-after-day all-ways-dependable regularity. It's a high compression, overhead valve gasoline engine with interchangeable cylinder heads, removable wet sleeve cylinders, water-heated intake manifold, vibration dampener, heavy-duty aluminum pistons, 7-bearing, 3½-inch crankshaft fully counterbalanced and many other fully-proved features, all detailed in Bulletin 1553.

WAUKESHA MOTOR COMPANY
WAUKESHA, WISCONSIN
New York • Tulsa • Los Angeles
Factories: Waukesha, Wisconsin and Clinton, Iowa

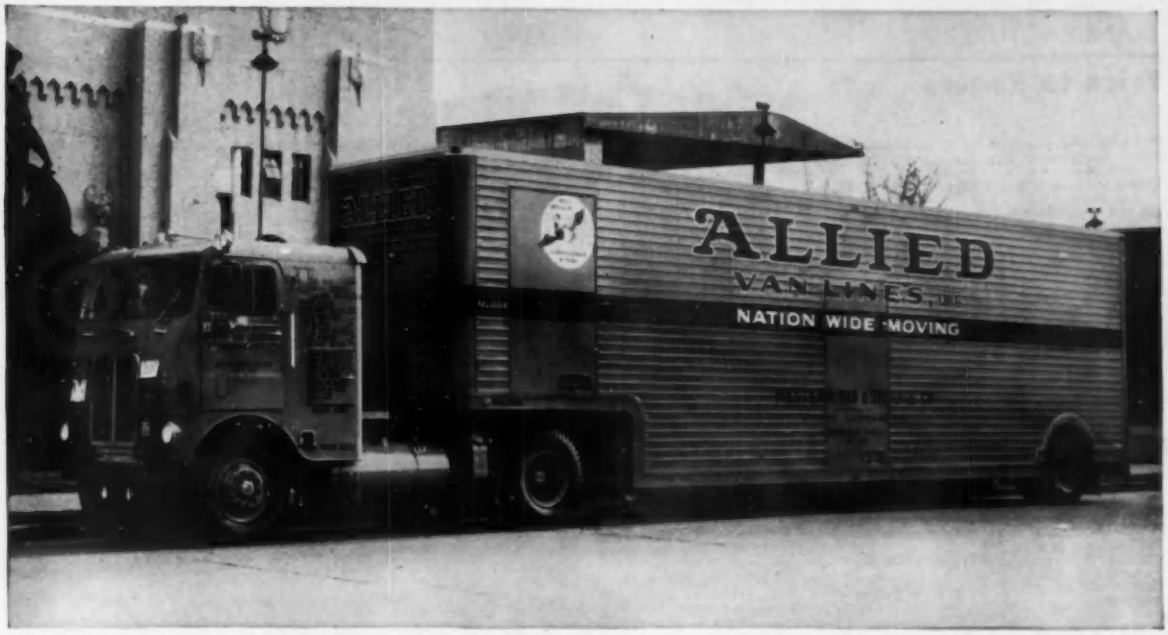
436

Pacific to Prest-O-Lite

Pacific Piston Ring Co 1410 S Los Angeles St Los Angeles 15 Calif
PACKARD ELECTRIC DIV GENERAL MOTORS CORP Dana St Warren Ohio
Pac Mor Mfg Co Look 13 & Roosevelt Ave San Antonio Texas
Page & Page Co 0605 S W Curry St Portland 1 Ore
Page Steel & Wire Div American Chain & Cable Co P O Box 692 Monessen Pa
Paint Remover Chemicals Corp 2440 Gilbert Ave Cincinnati 6 Ohio
Pak-Mor Mfg Co Rt 13 and Roosevelt Ave San Antonio Tex
Palm Bros Decalcomania Co 3736 Regent St Cincinnati Ohio
Palm Fechteler Co 85-99 Maple St Weehawken N J
Palnut Co 54 Glen Rd Mountainside N J
Paltier Corp 1701 Kentucky St Michigan City Ind
Panef Mfg Co 102 E Walnut St Milwaukee 1 Wis
Pantasote Co 415 Madison Ave New York 22 N Y
PANTEX MANUFACTURING CORP Box 660 B C Pawtuckett 9 Rhode Island
Panther Chemical Co P O Box 711 Fort Worth Tex
Paragon Auto Radiator Corp 51 Rutledge St Brooklyn 11 N Y
Paragon Products Corp 140-56 Astor St Newark 5 N J
PARISH PRESSED STEEL DIV DANA CORP Robeson & Weiser Sts Reading Pa
Paris Products Div Detroit Harvester Co Paris Ky
Park Chemical Co 8074 Military Ave Detroit 4 Mich
Park Drop Forge Co 777 E 79th St Cleveland 3 Ohio
Parker-Hannifin Corp Parker Fittings & Hose Div 17325 Euclid Ave Cleveland 12 Ohio
Parker Products Inc 1415 Washington Ave S Minneapolis 4 Minn
Parker Rust Proof Co 2177 E Milwaukee Ave Detroit 11 Mich
Park Metalware Co Thorne Ave & B R & P Tracks Orchard Park N Y
Parks Engineering Inc 347 E Ward St Milwaukee 7 Wis
PAR SALES CO INC 1647 N Gower St Hollywood 28 Calif
Parsons Co Newton Iowa
Parsons Engineering Corp 4590 Beidler Rd Willoughby Ohio
The Partlow Corp 240 Campion Rd New Hartford N Y
Parts Mfg Co 311 W 66th St New York 23 N Y
Parts Processing Corp 1499 E Michigan Ave Battle Creek Mich
Paser Mfg Co 537 Turk St San Francisco 2 Calif
Patch Rubber Co P O B 933 Akron 9 Ohio
Pate Oil Co 3460 W Leeds Road Milwaukee 15 Wis
Patton-MacGuyer Co Baker St & Virginia Ave Providence 5 R I
Patton Mfg Co 1802 W Pleasant St Springfield Ohio
Paul Bunyan Co 1602 Cove Ave La Grande Ore
Paul Machine Tool & Die Works 4600 S Kedzie Ave Chicago 32 Ill
Pecks Products Co 610 Clarence Ave St Louis 15 Mo
Peck Stowe & Wilcox Co 217 Center St Southington Conn
Peer Inc Charger Div 1200 Milton St Benton Harbor Mich
Peerless Chain Co Front & Walnut Sts Winona Minn
Peerless Trailer Co Portland Ore
Peneton Co 74 Hudson Ave Tenafly N J
Penetray Corp 615 Front St Toledo 5 Ohio
Pennsylvania Refining Co 2686 Lisbon Road Cleveland 4 Ohio
Pennsylvania Tire Co P O Box 377 Mansfield Ohio
Pennzoil Co South Penn Oil Co Drake Theatre Bldg Oil City Pa
Penray Co 1532 W Fulton St Chicago 7 Ill
Peoples Co 712 Buffington St Huntington 2 W Va
Pep Mfg Co 33 W 42nd St New York N Y
PERFECT CIRCLE CORP 552 S Washington St Hagerstown Ind
Perfect Equipment Corp 804 W Morgan St Kokomo Ind
Perfection Automotive Products Corp 925 W Elizabeth St Detroit 1 Mich
Perfection Gear Co 152nd St & Vincennes Ave Harvey Ill
Perfection Industries Inc Div of Hupp Corp 1135 Ivanhoe Rd Cleveland 10 Ohio
Perfection Steel Body Co S East St Galion Ohio
Perfect Parts Inc 43 W 23rd St New York 10 N Y
Perfex Corp 500 W Oklahoma Ave Milwaukee 7 Wis
Permacel U S Highway 1 New Brunswick N J
Permafuse Corp 675 Main St Westbury N Y
Permalux Co 500 Rathbone Ave Aurora Ill
Permanent Filter Corp 1800 W Washington Blvd Los Angeles 7 Calif
Perma Seating Co 8770 Kinsman Rd Cleveland 4 Ohio
PERMATEX CO 300 Broadway Huntington Station New York N Y
Permold Co 820 W Liberty St Medina Ohio
Permo Products Corp 1629 Platte St Denver 2 Colo
Permutit Co 50 W 44th St New York 36 N Y
Perrine Quality Products Corp 55 Rumford Ave Waltham Mass
Perry Batteries 3102 Corunna Rd Flint 3 Mich
Perry Filter Div R M Hollingshead Corp 840 Cooper St Camden 2 N J
Persons-Majestic Mfg Co 54 Commercial St Worcester Mass
Peterbilt Motors Co 107th Ave & MacArthur Blvd Oakland 5 Calif
Peters-Dalton Inc 17924 Ryan Road Detroit 12 Mich
Peterson Co Paul 1313 W Randolph St Chicago 7 Ill
Peterson Machine Tool Inc 6200 Merriam Dr Merriam Kans
Peterson Mfg Co De Witt Neb
Peterson Mfg Co 2716 E 14th St Kansan City 27 Mo
Peters & Russell Inc 501 W Liberty St Springfield 99 Ohio
Petroleum Chemicals Co Tilton Rd Danville Ill
Petroleum Solvents Corp 331 Madison Ave New York 17 N Y
Pettibone Mulliken Corp 4700 W Division St Chicago 51 Ill
Philadelphia Gasket & Mfg Co F & Atlantic Sts Philadelphia 34 Pa
Philadelphia Quartz Co 1146 Public Ledger Bldg 6th & Chestnut Sts Philadelphia 6 Pa
Philadelphia Valve Co Aramingo Ave & Ontario St Philadelphia 34 Pa
Phillips Mfg So 3475 Touhy Ave Chicago 45 Ill
PHILLIPS MFG CO 2816 Aldrich Ave S Minneapolis 8 Minn
PHILLIPS PETROLEUM CO Bartlesville Okla
Photocon Research Laboratories 421 N Altadena Dr Pasadena 8 Calif
Pick Mfg Co West Bend Wis
Pickwick Co 1111 Glass Rd N E Cedar Rapids Iowa
Pierce Governor Co 1625 Ohio Ave Anderson Ind
Pierce Trailer & Equipment Co 1306 S E Ninth Ave Portland 14 Ore
Pilot Mfg Co Battle Creek Mich
Pines Engrg Co 601 Walnut St Aurora Ill
Pioneer Air Compressor Co 120 Chambers St New York 7 N Y
Pioneer-Central Div Eclipse-Pioneer Div Bendix Aviation Corp Davenport Iowa
Pioneer Chemical & Mfg Co 9812 Meech Ave Cleveland 5 Ohio
Pioneering Motor Bearing Co 116 Beacon St South San Francisco 9 Calif
Pioneer Products Div of Witco Chemical Co 75 E Wacker Dr Chicago 1 Ill
Pirsch & Sons Co Peter 1308 35th St Kenosha Wis
Pit-Bar Mfg Co 3311 E 45th St Los Angeles 58 Calif
Pittsburgh Plate Glass Co (Brush Div) 3221 Frederick Ave Baltimore 29 Md
PITTSBURGH PLATE GLASS CO FIBER GLASS DIV 1 Gateway Center Pittsburgh 22 Pa
Pittsburgh Plate Glass Co Paint Div 1 Gateway Center Pittsburgh 22 Pa
PITTSBURGH PLATE GLASS CO SAFETY GLASS DIV 1 Gateway Center Pittsburgh 22 Pa
Pittsburgh Steel Co 1600 Grant Bldg Pittsburgh 30 Pa
Planet Metal Products Corp 964 Dean St Brooklyn 38 N Y
Plant Maintenance Inc 623 Green Rd Cleveland 21 Ohio
Plastikote Inc 9801 Harvard Rd N W Cleveland 5 Ohio
Platz Co 20433 Sherwood Ave Detroit 34 Mich

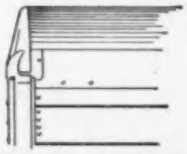
Product listings begin on page 79

Plummer Spray Equipment Co 700 Filmore St Napoleon Ohio
PLYMOUTH DE SOTO VALIANT DIV CHRYSLER CORP 6334 Lynch Rd Detroit 31 Mich
Pointer-Williamette Co PO Box 368 Edmonds Wash
Polar Hardware Mfg Co 3822 Lawrence Ave Chicago 25 Ill
Polaris Products Inc 1006 S Barclay St Milwaukee Wis
Pol-Flo Paint Sprayer Corp 1412 16th St Sacramento Calif
Pollak Corp Joseph 75 Freeport St Boston 22 Mass
Pollard Co C E 14571 Schaefer Rd Detroit 27 Mich
Pollock Industries Inc S Keim St Pottstown Pa
Polson Rubber Co Garrettsville Ohio
Polymer Corp 2120 Fairmont Ave Reading Pa
Pontiac Motor Div General Motors Corp Pontiac 11 Mich
Portable Electric Tools Inc 320 W 83rd St Chicago 20 Ill
Portable Elevator Mfg Co 920 E Grove St Bloomington Ill
Portable Lift Trucks Inc 2861 Sidney Ave Cincinnati 25 Ohio
Portable Light Co 216 William St New York N Y (38)
Porte Mfg Co 3179 Atlantic Ave Brooklyn 8 N Y
Porter-Cable Machine Co 700 Marcelles St Syracuse 4 N Y
H K PORTER CO FORGE & FITTINGS DIV Cleveland Forge Works E 3270 79th St Cleveland 4 Ohio
Porter Inc H K 74 Foley St Somerville 43 Mass
Porter Mfg & Supply Co 2836 Sunset Blvd Los Angeles 26 Calif
Porter Muffler Mfg Co 11820 W Olympia Blvd Los Angeles 64 Calif
PORTERSVILLE STAINLESS EQUIPMENT CORP Portersville Pa
Porto-Clinic Instruments Inc 298 Broadway New York 14 N Y
Pouell Mfg Co 813 Burlington Ave Logansport Ind
Powell Muffler Co 4235 W 42nd Pl Chicago Ill
Power Brake Equipment Co 1632 S E 11th St Portland 14 Ore
Power Brake Parts Mfg Co 3435 S Racine Ave Chicago 8 Ill
Powercraft Corp 2515 S Wabash Ave Chicago Ill
Power Pak Products Inc 43 Pearl St Buffalo 2 N Y
Power Products Corp Grafton Wis
Powers Regulator Co 3400 Oakton St Skokie Ill
Powertane Corp 75 E Wacker Drive Suite 1700 Chicago 1 Ill
PRACTICAL MFG CO 2840 4th Ave S Minneapolis 8 Minn
Practical Products Co 2632 Nicollet Ave Minneapolis 8 Minn
Pratt & Lambert Inc 75 Tonawanda St Buffalo 7 N Y
Pratt Muffler Div of Mar Pro Inc 168 N Michigan Ave Chicago Ill
Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn
Precise Products Corp 3715 Blue Ribbon Rd Racine Wis
Precision Automotive Components Co Manchester & Henry Sts Manchester Mo
Precision Extrusions 720 E Green Ave Bensenville Ill
Precision Hone Co 8618 Dearborn St Detroit 17 Mich
Precision Steel Warehousing 3500 N Wolf Rd Franklin Park Ill
Precision Thermometer & Instrument Co 1465 Brandywine St Philadelphia 30 Pa
Precision Tube Co Church Rd & Wissahickon Ave N Wales Pa
Precision Universal Joint Corp 615 S California Ave Chicago 12 Ill
Precision Welder Mfg Co 2218 W Lake St Chicago 12 Ill
Preco Inc 6300 Slauson Los Angeles 22 Calif
Preferred Electric & Wire Co Bush Terminal Bldg #8 Brooklyn 32 N Y
Premier Mfg Co Box 22 Cincinnati 38 Ohio
Premier Mfg Co 4434 S E 25th Ave Portland 2 Ore
Jacob Press Sons Inc 501 W 33rd St Chicago 16 Ill
Presstite-Keystone Engrg Products Co 3900 Chouteau St St Louis 10 Mo
Press Work Inc Lead Alloy Products Div 9100 Roselawn Ave Detroit 4 Mich
Prestole Corp 1351 Miami St Toledo 5 Ohio
Prest-O-Lite Battery Div Electric Autolite Co Toledo 1 Ohio

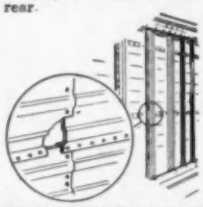


9,370 lbs trailer weight...20,300 lbs payload

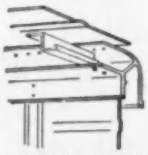
New 40-ft Brown warehouse van



STURDY ROOF CONSTRUCTION
Roof is firmly secured to the side panels and well-sealed to prevent water seepage. Built-in drain trough prevents water from cascading over rear.



SIDEWALL FABRICATION
Stiffeners are spaced on 16" centers, firmly riveted and secured to the top and bottom longerons. Skins are riveted to stiffeners, lower longerons and along lapped seams with aircraft quality rivets on 2" centers.



ROOF LONGERONS
Roof longerons are heat-treated aluminum extrusions providing the necessary strength at juncture of roof and side panels. Wide flanges allow vertical sidewall stiffeners to be firmly riveted both outside and inside.

High cube and low weight are important features in any warehouse van. To get both, Western Storage and Van Company, Seattle, a member of Allied Van Lines, Inc., specified a 40-foot van stepped 32" behind the landing gear and 8" ahead of the wheel wells. The result is the first unit of its type in the Pacific Northwest. Its wide doors permit easier and faster loading operations. Capacity for the van is 2,900 cubic feet. It carries a payload of 20,300 lbs in addition to padding and other equipment. Trailer weight is only 9,370 lbs. Aluminum construction eliminates rust problem . . . provides good-looking surface for lettering . . . is easy and inexpensive to repair.

Brown standard warehouse vans with similar weight and cube advantages are available in 19 to 40 ft lengths—with inside loading lengths of 18'6" to 39'6" in aluminum, steel or composite manufacture. Write us for details.

Brown CLARK EQUIPMENT

Brown is a registered trademark of
CLARK EQUIPMENT COMPANY
BROWN TRAILER DIVISION
Box 410 Michigan City, Indiana

Price to Rogers

Price Battery Corp Grand St Hamburg Pa
Price Instrument Engineering Co Inc Newport News Va
Prime Battery Mfg Co 2001 W 8th St Anderson Ind
PRIOR PRODUCTS CO 4828 Racell St Dallas Texas
Prismo Safety Corp Huntington Pa
Process Design Co 131 E 21st St Brooklyn 26 N Y
Producers Ltd 915 Fowler Ave Evanston Ill
Production Devices Inc Davis St Whitehall N Y
Production Tool Co of America 6474 Le Grand Ave Detroit 11 Mich
Progress Mfg Co Oil Equipment Div Arthur Ill
Thomas Prosser & Son Felter Bldg Tenafly N J
Protecto Safety Glass Co 82-04 Cooper Ave Brooklyn 27 N Y
Protectoseal Co 1920 W Western Ave Chicago 8 Ill
Protektoll Corp 601 W 26th St New York 1 N Y
Proto Tools Company 2209 Santa Fe Ave Los Angeles 54 Calif
Providence Body Co 750 Wellington Ave Cranston R I
Prufcoat Laboratories Inc 63 Main St Cambridge 42 Mass
Ted Prutsman 1606 E 88th St Los Angeles 2 Calif
Pure Carbon Co 441 Hall Ave St Marys Pa
PURE CARBONIC CO DIV OF AIR REDUCTION CO INC 150 East 42nd St New York 17 N Y
Pure Oil Co 35 E Wacker Drive Chicago 1 Ill
Purfex Mfg Co Box 118 Collegeville Pa
Puritan Co 961 Lyell Ave Rochester 6 N Y
PUROLATOR PRODUCTS INC 970 New Brunswick Ave Rahway N J
Put Battery Charger Co 1207 Castle St Dallas Texas
Pyle-National Co 1334 N Kostner Ave Chicago 51 Ill
Pyroil Co 122 N Main St La Crosse Wis

Q

Quaker City Iron Works Aramingo & Ontario Sts Philadelphia 34 Pa
Quaker State Oil Refining Corp Oil City Pa
Quaker Supreme Chemical Corp PO Box 1951 Montgomery Ala
Quality Tools Corp Railroad St New Wilmington Pa
Queen City Forging Co Tennyson & Dumont Sts Cincinnati 26 Ohio
Quick Charge Div Line Scale Co 3737 N W 37th St Oklahoma City Okla
Quigley Co 415 Madison Ave New York 17 N Y
Quincy Compressor Co 217 Maine St Quincy Ill
Quitslund Bodies & Equipment PO Box 396 North Bend Wash

R

R B Co Quinotte & Euclid Sts Kansas City 20 Mo
R-B-M Division Essex Wire Corp Chestnut & Hanna Sts Logansport Ind
R V Jack Corp PO Box 205 Arcade N Y
Radiator Seal Co 625 Sixteenth Ave Council Bluffs Iowa
Radiator Specialty Co 1400 W Independence Blvd Charlotte 1 N C
Radio Corp of America Mobile Communications Equip Commercial Electronics Dept Camden N J
RADSON ENGINEERING CORP Macon Ill
Rajah Co 35 Verona Ave Newark 4 N J
Ramsey Chain Co Troy Rd Albany N Y
RAMSEY CORP 3693 Forest Park Blvd St Louis 8 Mo
Ramsey Winch Mfg Co Box 3035 5531 E Admiral Place Tulsa 8 Okla
Randall Co 5000 Spring Grove Ave Cincinnati 32 Ohio
Randall Products Mfg Co 2095 Broadway New York 23 N Y
Ransburg Electro-Coating Co 1234 Barth Ave Indianapolis 7 Ind
Ransohoff Inc N 5th St at Ford Blvd Hamilton Ohio
Ransom Brush Co 1051 W Division St Chicago 22 Ill
Rapids Equipment Co B Ave & Sixth St N W Cedar Rapids Iowa
Rapids-Standard Co 100 Rapistan Bldg Grand Rapids 2 Mich
Rawhide Products Co Michigan Ave Kenilworth N J
RAYBESTOS DIV OF RAYBESTOS-MANHATTAN INC Bridgeport Conn
RAYBESTOS - MANHATTAN INC EQUIPMENT SALES DIV PO Box 1021 Bridgeport Conn
Raybestos-Manhattan Inc Manhattan Rubber Div 61 Willet St Passaic N J
Raybestos-Manhattan Inc Packing Div 61 Willet St Passaic N J
Rayl Mfg Co 217 5th St Oakland 7 Calif
Raymond Corp 151 Madison St Greene N Y
Raymond Mfg Div Associated Spring Corp 226 S Center St Corry Pa
Reading Batteries Div Electric Autolite Co 4700 Fifth St Highway Temple Pa
Reading Body Works Inc 420 Gregg Ave Reading Pa
Reading Crane & Hoist Corp 2140 Adams St Reading Pa
Reading Tire Machinery Co Inc 600 E El Segundo Blvd Hawthorne Calif
Realflex Products Co 335 38th St Brooklyn 32 N Y
Reardon Products 305 Cass St Peoria 2 Ill
Reasor Mfg Co 13th & Indiana Ave St Charles Ill
Rectifier Engrg Co 1803 E 7th St Los Angeles 21 Calif
Reda-Turner Mfg Co 311 Page Blvd Springfield 4 Mass
Red Comet Inc Red Comet Bldg Littleton Colo
Red Devil Tools 2400 Vauxhall Rd Union N J
Red Diamond Battery Mfg Co 1415 N Adams St Peoria 3 Ill
Reed Mfg Co Box 1321 Erie Pa
REEVES BROTHERS INC 1071 6th Ave New York 18 N Y
Refill Filter Co 541 15th Ave Newark 3 N J
Regal Air Corp 500 Fifth Ave New York 18 N Y
Regal Motor Products Inc 6325 Grand River Ave Detroit 8 Mich
Reiff & Nestor Co Lykens Pa
Reliable Jack Div Dayton Malleable Iron Co 1401 W 2nd St Dayton 1 Ohio
Reliance Battery Products Co 2211 S Eighth St Council Bluffs Iowa
Reliance Trailer & Truck Co 2765 16th St San Francisco 3 Calif
Reltool Corp 4540 W Burnham St Milwaukee 46 Wis
Remaco Inc 2 Park Ave New York 16 N Y
Remco Products Corp State & Hay Sts York Pa
REMINGTON ARMS CO 939 Barnum Ave Bridgeport 2 Conn
Remington Rand Div Sperry-Rand Corp 315 Fourth Ave New York 10 N Y
Remke Inc 28100 Grossbeek Highway Roseville Mich
Renie Metal Products Corp PO Box 344 Mansfield Ohio
Ren Plastics Inc Lansing 9 Mich
REO DIV WHITE MOTOR CO 1331 S Washington Ave Lansing 20 Mich
Reps Tool Co Box 5 Elmwood Branch Hartford 10 Conn
Republic Engrg & Mfg Co 6565 Wells Ave St Louis 14 Mo
Republic Gear Co 2197 Beaufait Ave Detroit 7 Mich
Republic Manufacturing Co 15655 Brookpark Rd Cleveland 35 Ohio
Republic Rubber Div Lee Rubber & Tire Corp Albert St Youngstown 1 Ohio
REPUBLIC STEEL CORP Republic Bldg Cleveland 1 Ohio
Republic Steel Corp Steel & Tubes Div 224 E 131st St Cleveland 8 Ohio
Republic Steel Corp Pressed Steel Div 6100 Truscon Ave Cleveland 27 Ohio
Resistoflex Corp Woodland Rd Roseland N J
Reuland Electric Co 3001 W Mission Rd Alhambra Calif
Revere Copper & Brass Inc 230 Park Ave New York 17 N Y
Revolvator Co US Route 1 at 86th St North Bergen N J
Rex-Hide Brake Lining Co 515 Prospect St East Orange N J
Rex Metal Parts Co 1295 W 78th St Cleveland 2 Ohio
Reynolds Electric Co 3000 River Rd River Grove Ill
Reynolds Ink Inc 4500 Euclid Ave Cleveland 3 Ohio

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REYNOLDS METALS CO 3rd & Grace Sts Richmond 19 Va
Reynolds Mfg Co 1419 Alamo National Bldg San Antonio 5 Texas
REYNOLDS MFG CO 600 N Prospect Ave Springfield 2 Mo
Rheem Automotive Co 601 S Pacentia Ave Fullerton Calif
Rhode Island Tool Co 148 W River St Providence 1 R I
Rhodes & Co James H 153 W Hubbard St Chicago 10 Ill
Rhodes Inc M H 30 Bartholomew Ave Hartford 6 Conn
Rhopac Inc 3425 Cleveland St Skokie Ill
RICH MFG CORP 96 N Division St Battle Creek Mich
Richards Co J A 903 N Pitcher St Kalamazoo 13F Mich
Richards Mfg Co 20 E Herman St Philadelphia 44 Pa
Richfield Oil Corp Richfield Bldg 555 S Flower St Los Angeles 13 Calif
Richmond Ring Co Souderton Pa
Richmont Inc 922 S Myrtle Ave Monrovia Calif
Ridbo Laboratories Inc 211 E Harrison St Danville Ill
RIDGE TOOL CO Elyria Ohio
Rigidized Metals Corp 718 Ohio St Buffalo N Y
Riker Mfg Inc 4901 Stickney Ave Toledo 12 Ohio
Riley Products Corp 2749 N Lincoln Ave Chicago 14 Ill
Rimat Gage Co 21 W Dayton St Pasadena 2 Calif
Rinck-McIlwaine Inc 16 Hudson St New York 13 N Y
Ring-Wald Products 123 N Lowry Ave Springfield Ohio
Rinshed-Mason Co 5935 Milford St Detroit 10 Mich
Rite Tool Inc 136 Poscasset St Fall River Mass
Rite-Way Products Co 39 W E H Crump Blvd Memphis 2 Tenn
River Smelting & Refining Co 4195 Bradley Rd Cleveland 1 Ohio
Rivette Mfg Co 1515 Rothwell Ave Houston Tex
Rivett Lathe & Grinder Inc 20 Riverview Rd Brighton Boston Mass
Road Runner Corp 11835 Ave O Chicago 17 Ill
Roadway Mounting & Equipment Co 21177 Mound Rd PO Box 164 Van Dyke Mich
Robbins Light Mfg Co Inc 420 No Michigan Ave Greensburg Ind
Robbins & Myers Inc 1345 Lagonda Ave Springfield Ohio
Robbins Tire & Rubber Co PO Box 230 Tustumbia Alabama
Roberts Mfg Co 118 Monroe St St Charles Mo
Roberts Toledo Rubber Co 4143 Monroe St Toledo 13 Ohio
Robinson Engineering & Sales Co 16550 Wyoming Ave Detroit 21 Mich
Rochester Mfg Co 100 Rockwood St Rochester 10 N Y
ROCHESTER PRODUCTS DIV GENERAL MOTORS CORP 1000 Lexington Ave Rochester 3 N Y
ROCKFORD CLUTCH DIV BORG-WARNER CORP 1301 18th Ave Rockford Ill
Rockford Crescent Mfg Co 420 Buckbee St Rockford Ill
Rockford Metal Products Inc 716 Cedar St Rockford Ill
Rock Hill Body Co W Main St Rock Hill S C
Rockwell Mfg Co Delta Power Tool Div 400 N Lexington Ave Pittsburgh 8 Pa
Rockwell-Standard Corp 843 4th Ave Coraopolis Pa
ROCKWELL-STANDARD CORP BRAKE DIV PO Box 358 Ashtabula Ohio
ROCKWELL-STANDARD CORP TRANSMISSION & AXLE DIV 100 Clark Ave Detroit 32 Mich
Rockwell-Standard Corp Universal Joint Div 1 Glass St Allegan Mich
Roddick Tool Co 1023 Pauline St Anaheim Calif
Rodgers Hydraulic Inc 7401 Walker St Minneapolis 26 Minn
Rodic Chemical & Rubber Corp Allen Ave New Brunswick N J
Roebling's Sons Corp John A 640 S Broad St Trenton N J
Roeper Crane & Hoist Works 1720 N 10th St Reading Pa
Rogers Bros Corp Orchard St Albion Pa
Rogers Corp Rogers Conn

Searching for Instant Oil Control?

Install AMERICAN HAMMERED KROME-OIL

with Stainless Steel Oil Rings

An oil ring can control oil only by maintaining tension. Stainless Steel is the best metal yet developed to retain its proper tension under the tremendous heat generated by modern, high compression engines. That is one of the reasons why the oil rings in American Hammered Krome-Oil Piston Ring Sets are made of Stainless Steel.

Stainless steel resists the effects of combustion and operating heat . . . continues to hold the chrome-plated side-rails of the oil rings against the cylinder wall, even in tapered and out-of-round bores.

Stainless steel oil rings are matched with *pre-seated*, chrome-plated compression rings. Both seat instantly. No comebacks. Try a set on your next job.

This is a drawing of an American Hammered stainless steel oil ring on the piston in the cylinder. The metal retains its tension, permits the new end-abutment design to function at highest efficiency. The ring does not depend on the bottom of the groove for tension. Needs no shims, no depth gauges. Provides the best oil control.

AMERICAN HAMMERED
Automotive Replacement Division
MUSKEGON, MICHIGAN
A Division of Sealed Power Corporation

AMERICAN HAMMERED
PISTON RINGS

Rolack to Signal

Rolack Inc 1350 Kings Highway Fairfield Conn
Roller Bearing Co of America Sullivan Way West Trenton N J
Roll Formed Products Co 3765 Oakwood Ave Youngstown Ohio
Roll-O-Matic Co Wyandotte St Kansas City 5 Mo
Rollway Bearing Co 541 Seymour St Syracuse 4 N Y
Romort Mfg Co Oakfield Wis
Root Co B M Prospect & Sherman Sts York Pa
Root Spring Scraper Co 527 W North St Kalamazoo 11 Mich
Roper Hydraulics Inc 225 Blackhawk Park Ave Rockford Ill
Rosan Inc 2901 W Coast Highway Newport Beach Calif
Rose Mfg Co 2700 W Barberry Pl Denver 4 Colo
Rosen & Co A W 447 Tenth Ave New York 7 N Y
Rossaul Co 170 Fifth Ave New York 10 N Y
Rossendale Ruboil Co 30 Euclid Ave Newark N J
Ross Gear & Tool Co Inc 800 Heath St Lafayette Ind
Ross Operating Valve Co 120 E Golden Gate Ave Detroit 3 Mich
ROSS & WHITE CO 400 W Madison St Chicago 6 Ill
Rotary Lift Co 1054 Kansas St Memphis 2 Tenn
Rotax Mfg Co 175 Ridge St Newark 4 N J
Rotex Punch Co 2350 Alvardo St San Leandro Calif
Roto-Beam 1755 N Keeler St Chicago 39 Ill
Rotor Tool Co 23600 Lakeland Blvd Cleveland 32 Ohio
Rottler Boring Car Co 1727 First Ave S Seattle 4 Wash
Round & Son David Box 883 Cleveland 22 Ohio
Round Woodhouse Chain & Mfg Co Third St Trenton 7 N J
Rovtar Tool-Die Mfg Co 2230 S Wood St Chicago 8 Ill
Rowe Industries 1702 Wayne St Toledo 9 Ohio
Rowe Methods Inc 2534 Detroit Ave Cleveland 13 Ohio
Royal Electric Corp 95 Grand Ave Pawtucket R I
Royal Oak Tool & Machine Co 29800 Stephenson Highway Royal Oak Mich
Royal McBee Corp Data Processing Div Port Chester N Y
Royar Automotive Tool Co 4234 W Taylor St Chicago 24 Ill
Roylyn Inc 620 Paula Ave Glendale 1 Calif
Rubatex Division Great American Industries Inc Bedford Va
Rubbercraft Corp of Calif Ltd 110 E 17th St Los Angeles Calif
Rubberhide Co Inc Box 631-C Trenton N J
Ruberoid Co 500 5th Ave New York 36 N Y
RUGER EQUIPMENT INC 615 W 4th St Uhrichsville Ohio
Ruggles-Klingeman Mfg Co Foster Court Salem Mass
Rupert Parachute Co Wheeling Ill
Ruscoe Co W J 483 Kenmore Blvd Akron 1 Ohio
Rush Mfg Co E S 499 San Fernando Rd Los Angeles 31 Calif
Russell, Burdsall & Ward Bolt & Nut Co Port Chester N Y
Russell Mfg Co E Main St Middletown Conn
Russell Mfg Co John M 900 Rubber Ave Naugatuck Conn
Ruse Master Chemical Corp 56 Creighton St Cambridge Mass
RYAN RECORDING THERMOMETER CO 847 Poplar Place Seattle 44 Wash
Ryder Mfg Co 220 N Ada St Chicago 7 Ill
Ryder Truck Rental Div Ryder System Inc Box 33-816 Miami Fla
Ryerson & Son Inc Joseph T 16th & Rockwell Sts Chicago Ill

S

SFR Enterprises 5812 N Oak St Trafficway Kansas City 16 Mo
SKF Industries Inc Front St & Erie Ave Philadelphia 32 Pa
S & M Lamp Co 2369 E 51st St Los Angeles 54 Calif
S-P Mfg Corp 30201 Aurora Rd Solon Ohio
Sabin Machine Co 6536 Carnegie Ave Cleveland 3 Ohio
Safe-T-Brake Valve Co 484 N Main St Akron 10 Ohio
Safetee Glass Co 4717 Stenton Ave Philadelphia 44 Pa
Safety Fire Extinguisher Co 293 7th Ave New York 1 N Y
Safety First Products Corp 175 Saw Mill River Road Elmsford N Y
Safety Speed Control Co 7800 N E Fourth Court Miami 38 Calif
Sage Equipment Co 30 Essex St Buffalo 13 N Y
SAGINAW DIV EATON MFG CO 1000 Rust St Saginaw Mich
Saginaw Industries Co 2119 S Jefferson Ave Saginaw Mich
Saginaw Products Corp 68 Williamson St Saginaw Mich
Saginaw Steering Gear Div General Motors Corp 3900 Holland Rd Saginaw Mich
St Pierre Chain Corp Frank St Worcester Mass
Sal Metal Products Co 120 Freeman St Brooklyn 22 N Y
Salsbury Corp 1161 E Florence Ave Los Angeles 1 Calif
Sandusky Abrasive Wheel Co Park & Borden Sycamore Ill
Sangamo Electric Co Converse & N 10th St Springfield Ill
Santay Corp 351 N Crawford Ave Chicago 24 Ill
Santeler Bros 950 E Main St Columbus 5 Ohio
Sasgen Derrick Co 3101 Grand Ave Chicago 22 Ill
Save Lamp Co 3687 Ash St Baltimore 11 Md
Savereisen Cements Co Sharpsburg Pittsburgh 15 Pa
Saylor-Beall Mfg Co St Johns Mich
Scaife Co Kellogg-American Div Ann Street Oakmont Pa (Pittsburgh District)
Scammell & Sons 116 Quincy Ave Quincy 69 Mass
SCANDINAVIA BELTING CO 112 Keswick Ave Charlotte 1 N C
Schafer Plow Co 28 Simpson St Pratt Kansas
Schatz Mfg Co Poughkeepsie N Y
Schauer Manufacturing Co 4533 Alpine Ave Cincinnati 42 Ohio
Schayer & Badinger Inc 2841 Tchoupetoulos St New Orleans 15 La
Scheneker Iron Works Inc 350 Sycamore St Buffalo 4 N Y
Schenuit Rubber Co Frank G Railroad & Union Aves Baltimore 11 Md
Scherr Co George 200 Lafayette St New York 12 N Y
Schertzer Equipment Co 32 Prospect St Somerville 28 Mass
Schield Bantam Co Waverly Iowa
Schildmeier Co H C 312 N Senate Ave Indianapolis 2 Ind
Schlegel Mfg Co 1555 Jefferson Rd Rochester 23 N Y
Schmieg Industries Inc 29330 Sherwood St Detroit Mich
Schmitt & Son Inc John V 314 14th St S E Washington 3 D C
Schnabel Co The 10th & Muriel Sts Pittsburgh 3 Pa
Schofield Inc E L 2230 Seventh Ave Rockford Ill
SCHRADER'S SON A Div of Scovill Mfg Co 470 Vanderbilt Ave Brooklyn 38 N Y
Schramm Inc Virginia & Garfield Aves West Chester Pa
Schroeder Bros Corp Nichols Ave McKees Rocks Pa
Schwartz Mfg Co Lester Prairie Minn
Schwartz Rubber Corp 3708 Payne Ave Cleveland 14 Ohio
Schwarze Electric Co Church St at Payne Ave Adrian Mich
SCHWITZER CORP 1125 Massachusetts Ave Indianapolis 7 Ind
Scintilla Magneto Div Bendix Aviation Sidney N Y
Scott Air Compressor Co 4682 Mulberry St Philadelphia 24 Pa
Scott-Atwater Mfg Co 2901 E Hennepin Ave Minneapolis 13 Minn
Scott Corp Douglas 3931 W 150th St Cleveland 11 Ohio
Scovill Mfg Co 99 Mill St Waterbury 20 Conn
SCRANTON CELLOMATIC BATTERY CO Delaware St Archbald Pa
Scranton Truck Body & Equipment Co 2341 Scranton Rd Cleveland 13 Ohio
Screenmasters 128 32nd St Brooklyn 32 N Y
Scully Signal Co 174 Green St Melrose 76 Mass
Seagrave Corp 2000 S High St Columbus Ohio
Sealco Air Brakes Inc 13530 Nelson City of Industry Calif

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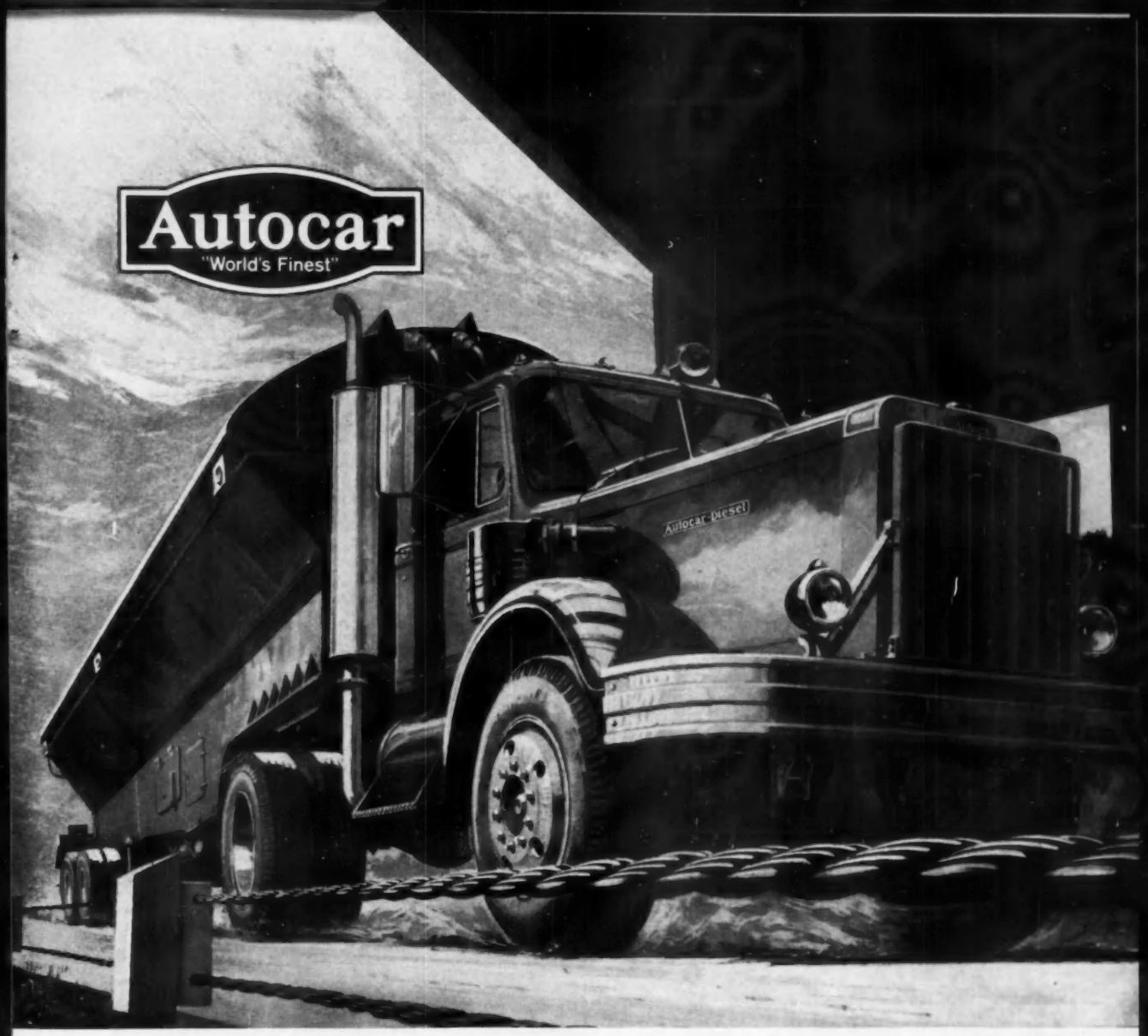
SEALED POWER CORP 2001 Sanford St Muskegon Heights Mich
Sealol Corp Warwick Industrial Park Providence 5 R I
Seaman-Gunnison Corp 2763 S 27th St Milwaukee 15 Wis
Seaman Products Div Seaman Paper Co 1236 Sherman Ave Evanston Ill
Seamless Rubber Co Industrial Tape Div 253 Hallock Ave New Haven 3 Conn
SEARS ROEBUCK & CO Arthington & Homan Aves Chicago Ill
Seco Engrg & Mfg Co Inc 1300 W Fort St Detroit 26 Mich
Security Locknut Corp 1800 N 15th Ave Melrose Park Ill
SEIBERLING RUBBER CO 345 Fifteenth St N W Akron Ohio
Sellers Injector Corp 1600 Hamilton St Philadelphia 30 Pa
Selma Trailer & Mfg Co 3111 Highway 99 Selma Calif
Seneca Falls Machine Co 314 Fall St Seneca Falls N Y
Sensation Mower Inc 7577 Burlington St Ralston Neb
Servall Truck Body Mfg Co 4838 Cermak Rd Cicero Ill
Service Industries 2103 E Somerset St Philadelphia 34 Pa
Service Products Corp 201 S Rural St Indianapolis 1 Ind
SERVICE RECORDER CO 1013 Rockwell Ave Cleveland 14 Ohio
Service Spring Co Box 638 Indianapolis 6 Ind
Service Supply Co 1115 7th St Denver 4 Colo
Servwell Products Co 6519 Euclid Ave Cleveland 3 Ohio
Set Screw & Mfg Co 270 Main St Bartlett Ill
Severance Tool Industries Inc 711 Iowa Rd Saginaw Mich
Shakeproof Div of Illinois Tool Works St Charles Rd Elgin Ill
Shaler Co Waupun Wis
Shamrock Trailers & Axle Mfg Co 13447 Schaefer St Detroit Mich
Shand & Jurs Co 2600 Eighth St Berkeley 10 Calif
Sharon Steel Corp Sharon Pa
Sharpe Mfg Co 1224 Wall St Los Angeles 15 Calif
Sharpsville Steel Fabricators Inc Sharpsville Pa
Shatterproof Glass Co 4815 Cabot Ave Detroit 10 Mich
Shaw-Box Crane & Hoist Div Manning Maxwell & Moore Inc Park & Broadway Muskegon Mich
Shaw Co Joseph 6225 Benore Rd Toledo 12 Ohio
Shearcut Tool Co 7045 Darby Ave Resida Calif
Sheet Metal Specialty Div Follansbee Steel Corp State St Follansbee W Va
Sheffield Bronze Paint Corp 17814 Waterloo Rd Cleveland 19 Ohio
Sheffield Corp 721 Springfield St Dayton 1 Ohio
Sheldon Machine Co 4220 N Knox Ave Chicago 41 Ill
SHELL OIL CO 50 W 50th St New York 20 N Y
Shenango Furnace Co Centrifugal Cast Products Div Dover Del
Shepard Niles Crane & Hoist Corp Montour Falls N Y
Sheppard Co R H 101 Philadelphia St Hanover Pa
Shepard-Thomason Co 2023 W Gage Ave Los Angeles 47 Calif
Sherman & Co Earl 2526 Wood St Oakland 7 Calif
Sherman-Klove Co 3535 W 47th St Chicago 32 Ill
Sherman Mfg Co H B 22 Barney St Battle Creek Mich
Sherman Products Inc 3200 W 14 Mile Rd Royal Oak Mich
SHERWIN-WILLIAMS CO 101 Prospect Ave N W Cleveland 1 Ohio
Shovel Supply Co Box 1369 Zone 21 Dallas Texas
Shuford Mills Inc 15th St & Highland Ave N E Hickory N C
SHULER AXLE CO 2901 S Second St Louisville 8 Ky
Shure Mfg Co 1601 S Hanley Rd St Louis 17 Mo
Shur-Gloss Mfg Co 3536 N Knox Ave Chicago 41 Ill
Shurhit Products Inc 845 S Market St Waukegan Ill
Sicard Industries Inc 753 W Main St Watertown N Y
Siebring Mfg Co 182 Main St George Iowa
Sight Feed Generator Co West Alexandria Ohio
Signal Mfg Co 69 Bennett St Lynn Mass



First heavy-duty truck ever built by the new set of rules

Result: Up to 4,475 lbs. off chassis—into payload!

"Cut as much as 25% off chassis weight... carry the savings in extra payload... keep it just as strong and powerful."

These were the rules that Autocar built so successfully into its new line of *all-lightweight-design* highway trucks and tractors. But there was another rule that overrode them all:

"Keep it as fine and trouble-free as all other trucks that have carried the Autocar name." So Autocar engineers wrote themselves a new set of rules—and built an entirely new truck, all the way from the aluminum frame to the roof of the cab. These new "A" models fulfill all of today's (and tomorrow's) highway requirements—*plus* the comfort, safety, reliability and serviceability that have made Autocar famous. See 'em!

Autocar
"World's Finest"

Division of
The White Motor Company
Exton, Pa.

Signal-Stat to Strick

SIGNAL-STAT CORP 523 Kent Ave Brooklyn 11 N Y
Silent Hoist & Crane Co 841 63rd St Brooklyn 20 N Y
Silver Body Works Inc 78 Ingraham St Brooklyn 37 N Y
Silvercote Products Inc 161 E Erie St Chicago 11 Ill
Silver Eagle Co 5885 N W St Helens Rd Portland 10 Ore
Silver Line Brake Lining Corp 5618 E Washington Blvd Los Angeles 22 Calif
SILVER SEAL PRODUCTS CO Lincoln Park Mich
Simmonds Aerocessories Inc 105 White Plains Rd Tarrytown N Y
Simmons Fastener Corp 1749 N Broadway Albany N Y
Simmons Mfg Co Ashland Ohio
Simonds Abrasive Co Tacony & Fraley Sts Philadelphia 37 Pa
Simonds Saw & Steel Co 470 Main St Fitchburg Mass
Simoniz Co 2100 Indiana Ave Chicago 16 Ill
Simplex Piston Ring Mfg Co 12301 Bennington Ave Cleveland 11 Ohio
Simplex Products Corp 3830 Kelly Ave Cleveland Ohio
Simplicity Engrg Co Durand 1 Mich
Simpson Electric Co Div of American Gage & Machine Co 5200 W Kinzie St Chicago 44 Ill
SINCLAIR REFINING CO 600 Fifth Ave New York N Y
Sireno Co 214 William St New York 17 N Y
Sittler Corp 18 N Ada St Chicago 7 Ill
Skarnes Engrg & Supply Inc 2907 E Franklin Ave Minneapolis 6 Minn
Skil Corp 5033 Elston Ave Chicago 30 Ill
SKINNER ELECTRIC VALVE DIV SKINNER CHUCK CO Edgewood Ave New Britain Conn
Slimp Axle Products Highway 99 West P O Box 449 Colton Calif
Smalley Accessories Corp 224 W Huron St Chicago 10 Ill
Smash-Proof Co 6000 State Ave Ashtabula Ohio
Smith Corp A O 27th & Hopkins St Milwaukee 1 Wis
Smith Mfg Corp Grover 850 E Valley Blvd San Gabriel Calif
Seymour Smith & Sons Inc Oakville Conn
Smith Welding Equipment Corp 2633 Fourth St S E Minneapolis 14 Minn
Smithy's Muffler Co 1850 N Main St Los Angeles 31 Calif
SNAP-ON TOOLS CORP 8046 28th Ave Kenosha Wis
Snow-Craggs Corp 5840 S Oakley Ave Chicago 36 Ill
Snugl Wheel Weight Mfg Co Div of Mid-Western Auto Parts 824 E Elm St Kokomo Ind
Snyder & Son M L Inc 1827 E York St Philadelphia 25 Pa
SNYDER TANK CORP 3773 Lake Shore Blvd P O Box 14 Buffalo 5 N Y
SOCONY-MOBIL OIL CO INC 150 E 42nd St New York N Y
Sodrin Corp 2746 McGee Traffic Way Kansas City Mo
Soffe & Son Morris 170 W Berks St Philadelphia 22 Pa
So-Lo Jack Co Attleboro Mass
Sorenson Mfg Co P 32-21 57th St Woodside 77 N Y
Soss Mfg Co 21777 Hoover Rd Detroit 13 Mich
South Bend Lathe Works 425 E Madison St South Bend 22 Ind
SOUTH CHESTER CORP SOUTHCO DIV 228 Industrial Highway Lester Pa
Southern Chain & Mfg Co 3207 Second Ave Birmingham 4 Ala.
Southern Coach & Body Co Evergreen Ala
Southern Friction Materials Co Box 1475 Charlotte N Carolina
Southern Wearing Co 4 Evans St Greenville S C
Southland Battery Co 2040 Amelia St Dallas Texas
Southwest Pump Co First & Center Sts Bonham Texas
South Wind Division Stewart-Warner Corp 1514 Drover St Indianapolis 7 Ind
Space Saving Equipment Co 160-18 27th Ave Flushing 58 N Y
Sparkler Mfg Co Lake St Mundelein Ill
Spartan Aircraft Co 1900 N Sheridan Rd Tulsa Okla
Sparton Automotive Div of Sparton Corp Jackson Mich
Spaulding Fibre Co 310 Wheeler St Tonawanda N Y
Speaker Corp J W 3059 N Weil St Milwaukee 12 Wis
Speaker Mfg Co 1440 E 19th St Indianapolis Ind
Specialty Insulation Mfg Co Hoosick Falls N Y
Speco Inc 7308 Associate Ave Cleveland 9 Ohio
Speedi-Dri Corp Menlo Park N J
Speedmaster Ltd 3814 Piedmont Ave Oakland 11 Calif
Speedometer Service Co 151 Forest St Montclair N J
Speedway Machine & Tool Co 1802 N Luett St Indianapolis Ind
Speed Way Mfg Co 1421 Barnsdale Rd La-Grange Park Ill
Spee-Flo Mfg Corp 720 Polk Ave Houston 2 Texas
Speer Carbon Co St Marys Pa
Speidel Elevator Corp W Buttonwood & Gordon Sts Reading Pa
Spen & Co Henry 1995 Pitkin Ave Brooklyn 7 N Y
Spencer Div of Metals & Controls Corp 34 Forest St Attleboro Mass
Spencer Mfg Co 225 N Main St Spencer Ohio
Spencer-Safford Loadcraft Inc Augusta Kan
Spitzka Mfg Co 235 Cedar St North Sacramento Calif
Split Ballbearing Div of MPB Inc Lebanon N H
Spotrim Corp 15301 Mack Ave Detroit 24 Mich
SPRAGUE DEVICES INC 500 Huron St Michigan City Ind
Sprague Electric Co 344 Marshall St North Adams Mass
Spray Engineering Co 100 Cambridge St Burlington Mass
Spray Products Corp 725 Kenilworth Ave Merchantville 10 N J
Spring Div Borg-Warner Corp Madison Ave & 25th Ave Bellwood Ill
Spring Perch Co Hamburg Turnpike P O Box 6 Lackawanna 18 N Y
Springfield Body & Trailer Co 1631 College St Springfield Ohio
Springfield Electrical Specialties Inc 1200 Wooster St New York 12 N Y
Springfield Mfg Co Bechtle Ave & Columbia St Springfield Ohio
Springfield Wheel Puller Co 510 Hubert Ave Springfield Ohio
Square D Co 6060 Rivard St Detroit 11 Mich
St Louis Spring Co Div Moog Industries Inc 6650 Easton Ave St Louis 14 Mo
St Louis Tool Co 6100 Prescott St St Louis 15 Mo
Stackhouse E H 219 N 63rd St Philadelphia 39 Pa
Stackpole Carbon Co Tannery St St Marys Pa
Stacy Mfg Co Tiffin Ohio
Stahal Metal Products Inc 4750 W 160th St Cleveland 35 Ohio
Stain-Ox Co 625 E First Ave Roselle N J
Stainless Steel Products Co 1000 Berry Ave St Paul 14 Minn
Stanco Mfg & Sales Co 1666 Ninth St Santa Monica Calif
Standard Auto Body Co 4900 S Soto St Los Angeles 58 Calif
Standard Automotive Parts Co 660 Nims St Muskegon Mich
Standard Electric Co P O Box 6356 San Antonio Tex
Standard Electric Mfg Co Haddon Ave West Berlin N J
Standard Electrical Tool Co Mt Hope & River Rd Cincinnati 4 Ohio
Standard Forge & Axle Co Hunter Sta Montgomery 2 Ala
Standard Gage Co Poughkeepsie N Y
Standard Locknut & Lockwasher Co 2250 Valley Ave Indianapolis 18 Ind
Standard Mirror Co 141 Milton St Buffalo 10 N Y
STANDARD MOTOR PRODUCTS INC 37-18 Northern Blvd Long Island City L I N Y
STANDARD OIL CO OF CALIF Western Operations Inc 225 Bush St San Francisco 20 Calif
STANDARD OIL CO (INDIANA) 910 S Michigan St Chicago 80 Ill
STANDARD OIL CO OF TEXAS El Paso Texas
Standard Portable Cord Co Mayville N Y
Standard Pressed Steel Co P O Box 395 Jenkintown Pa
Standard Products Co 2130 W 110th St Cleveland 2 Ohio
Standard Railway Fusee Corp Signal Flare Div Box 30-C Needham Heights 94 Mass
Standard Seal Co Van Wert Ohio

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Standard Steel Works Inc 16th & Howell Sts North Kansas City 16 Mo
Standard Supply Co 5920 Bryant St Pittsburgh 6 Pa
Standard Toch Chemicals Inc 2600 Richmond Terrace Staten Island 3 N Y
Standard Tool Co 3950 Chester Ave Cleveland 14 Ohio
Standard Trailer Co 415 Park St San Leandro Calif
Stanley Co John T 642 W 30th St New York 1 N Y
Stanley Electric Tools Div of Stanley Works 480 Myrtle Ave New Britain Conn
Stanley Tools 111 Elm St New Britain Conn
Stanley Works (Pressed Metal Div) 195 Lake St New Britain Conn
Stan-Test Corp 4630 W Harrison St Chicago 44 Ill
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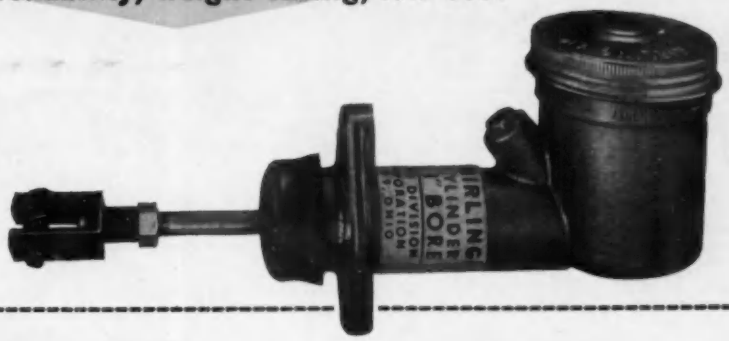

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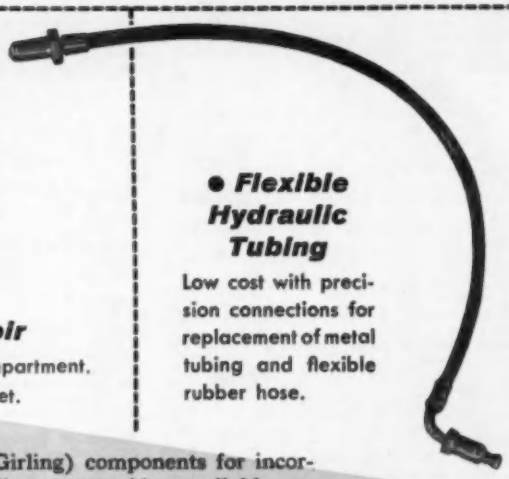

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Ordinary Wheels transmit radial run-out, leap and bounce to tire, vehicle and cargo.

Ordinary Wheels transmit damaging lateral run-out (wheel wobble) to tires and vehicle.

ACCU-RIDE PRECISION WHEELS
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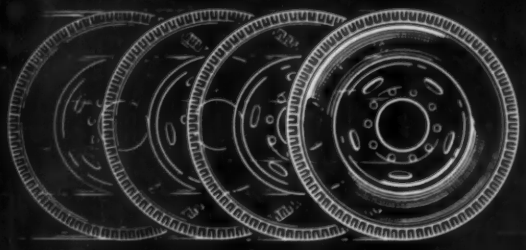

Accu-Ride Precision Wheels run smoothly with 62% less radial run-out!

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The truest rolling wheel ever made, Firestone's Accu-Ride increases service life of tire and vehicle, cushions cargo and reduces driver fatigue to produce the most economical and efficient wheel in the industry! Only Firestone Accu-Ride Wheels offer you all this: **truly round construction with less wheel bounce • completely accurate construction with less wheel wobble • symmetrical construction with less out-of-balance • the only design especially developed for modern loads, speeds and stresses • better stress distribution in the disc • improved physical properties in the material • better and stronger fastening of the disc to the rim • better over-all tolerance controls • the best corrosion-resistant coating in use today—Firestone *Perma-Plate*.**

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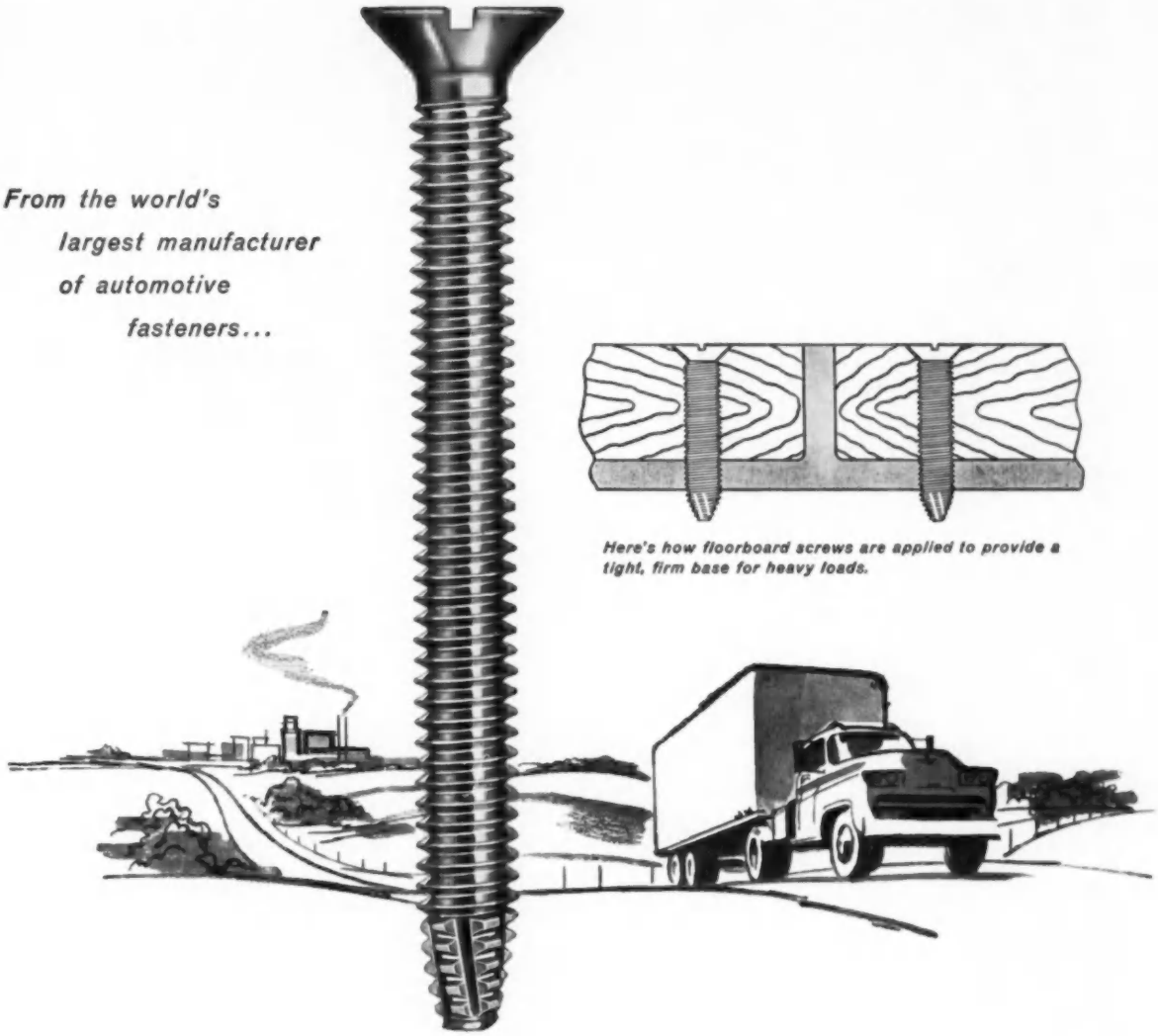

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NEW FLOORBOARD SCREWS

bright zinc and clear chromate finish... in cartons or bulk

Now Lamson offers you a new, fast-moving fastener item. These Floorboard Screws are widely used in maintenance and replacement of trailer floors.

For distributors, they offer extra sales to fleet operators and repair shops. For maintenance shops, they offer top quality, dependability and ease of application.

Shipment made from stock on the following sizes:

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Plants in Cleveland and Kent, Ohio • Chicago and Birmingham

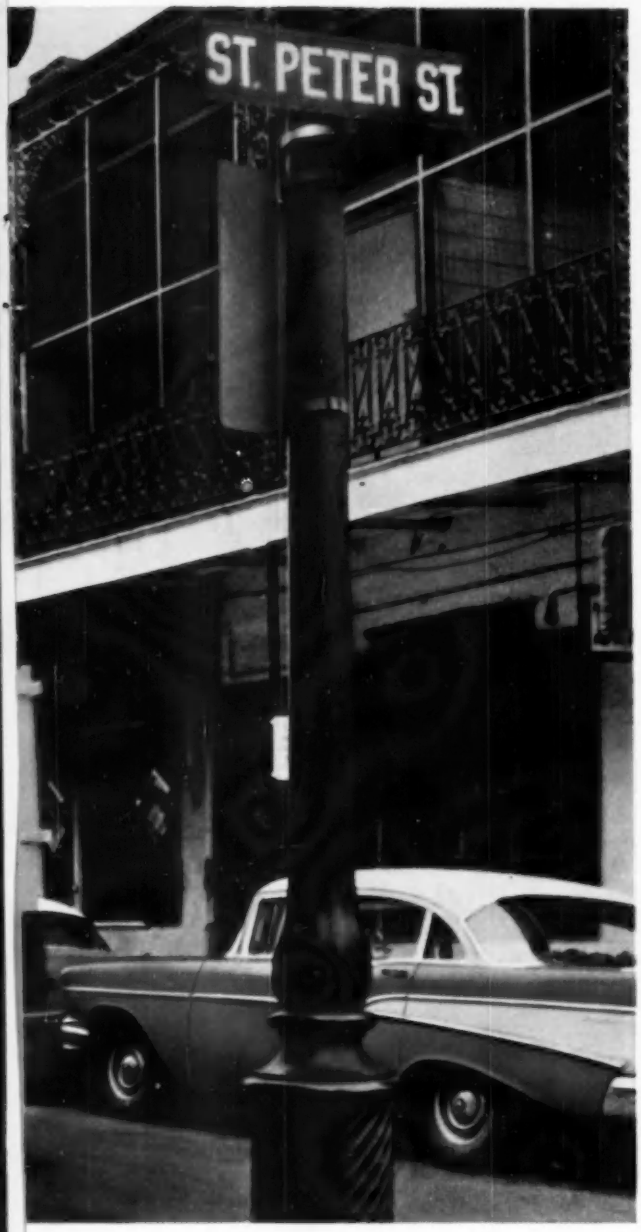
Award-winning Holsum Baking fleet cuts operating costs to

GULF MAKES THINGS

How cheaply can you run light trucks in heavy start-stop city traffic? Holsum Baking Company of New Orleans got operating costs down to 7.9¢ a mile, including gas, oil, parts and maintenance labor—holding an average of less than one mechanical delay per truck per year—thereby winning the Fleet Owner Annual Maintenance Efficiency Award.

Holsum's aim for its 100-truck fleet is more preventive maintenance, less frequent overhauls. Frank Burk, Fleet Superintendent, puts it this way:

"We've tried a number of motor oils, but we've settled on Gulflube Motor Oil X.H.D. because it prevents harmful engine deposits. Our trucks roll 75,000 to 100,000 miles without major overhauls.



Though most Holsum Baking Company delivery trucks travel on crowded New Orleans streets, they average 11.2 miles per gallon, using Good Gulf® gasoline exclusively.

Frank Burk, Holsum Fleet Superintendent, points out decal of his company's national Maintenance Efficiency Award to Gulf Sales Representative Al Pfister, who worked closely with Holsum in planning preventive maintenance program. On-the-job service like this is one of the benefits you get from Gulf.

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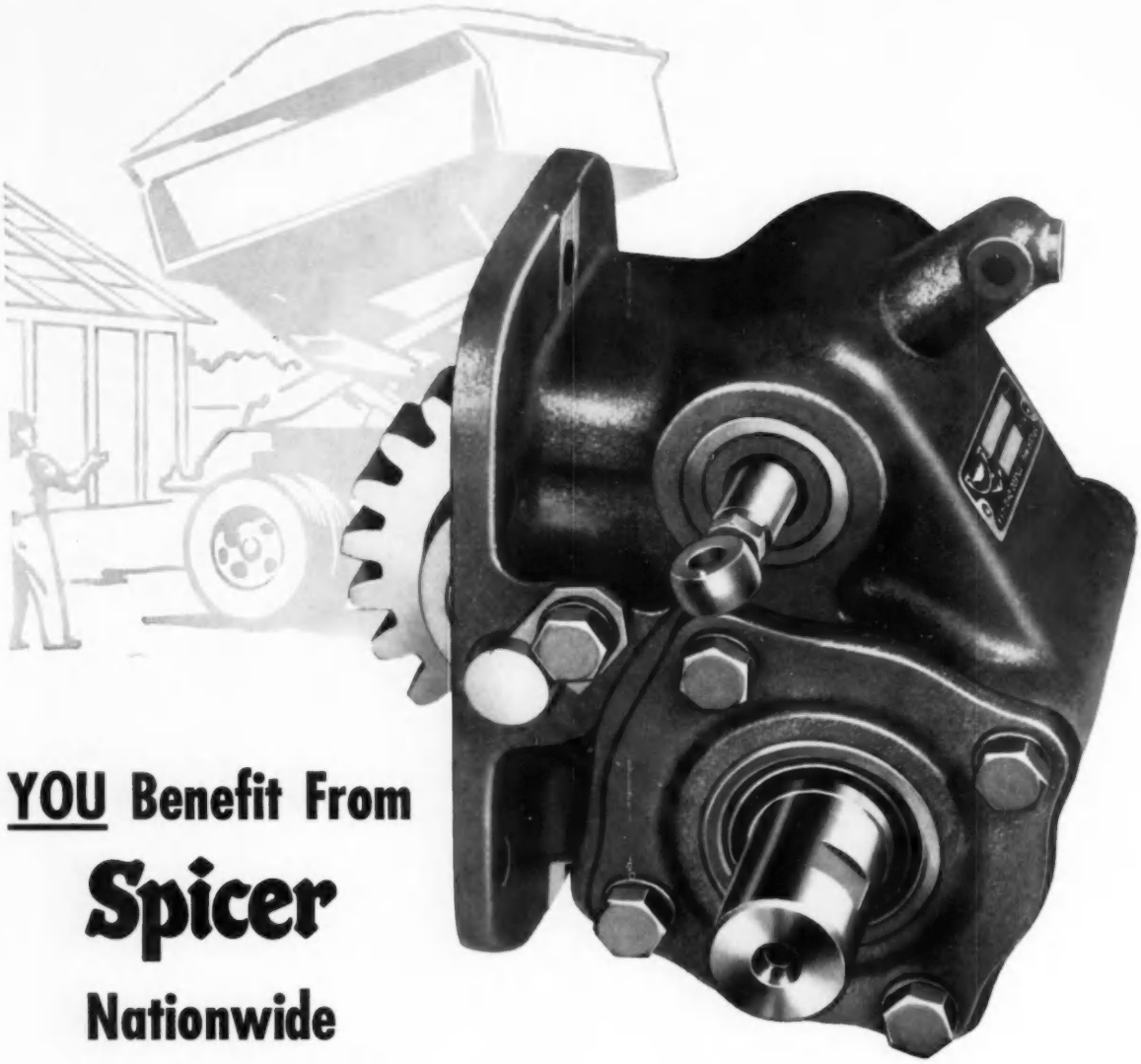

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Welch Mfg Co 533 W Jefferson St Phoenix Ariz
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Westinghouse Electric Corp 3 Gateway Center P O Box 2278 Pittsburgh 30 Pa
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Z

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FAST — POWERFUL — PORTABLE . . . The small, compact and powerful machine will loosen stuck or frozen casing easily, without injury to bead side wall or rim.

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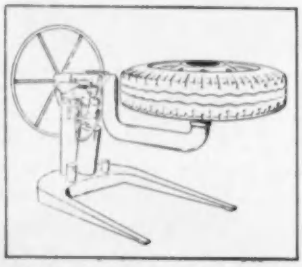
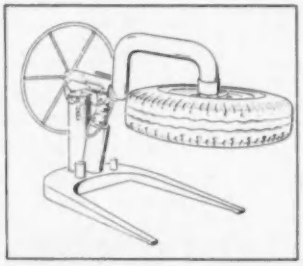


FACE UP—The Big Hand with Truck Tire Remover will remove lock ring or mount tire. Rim can be held at any angle between these shown.



FACE DOWN—The Truck Tire Remover can be placed into position to loosen casing. Casing when loose will fall to the floor.

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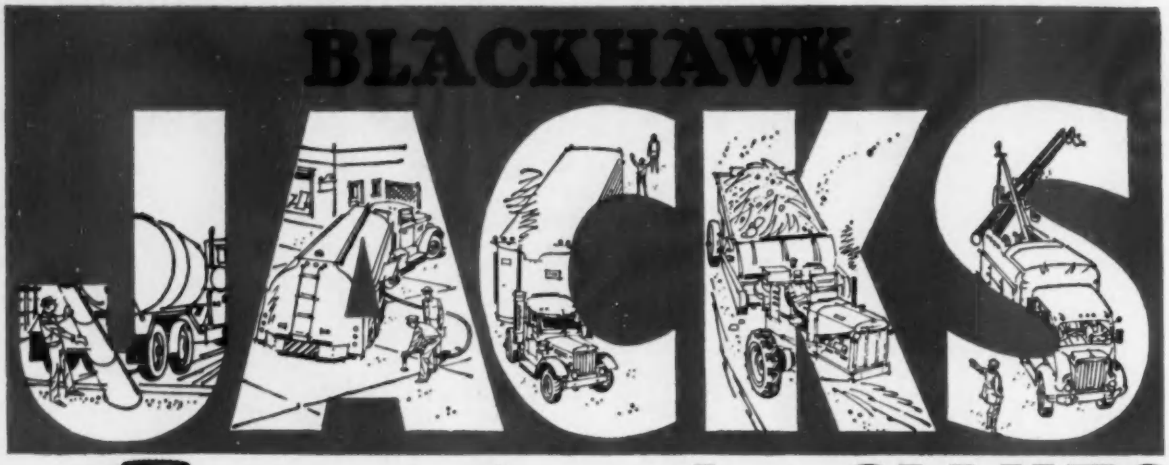

service the GIANTS

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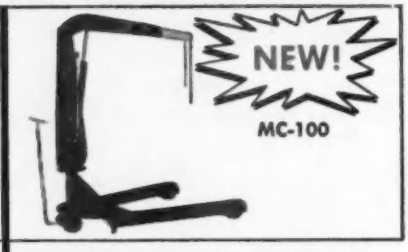

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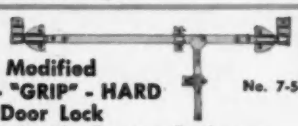
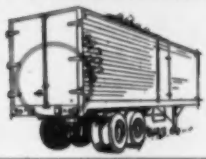
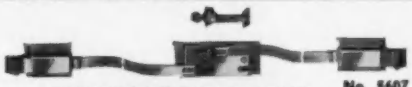
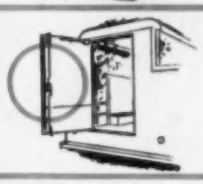
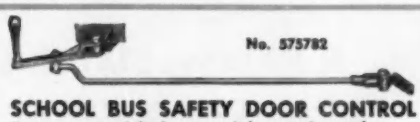
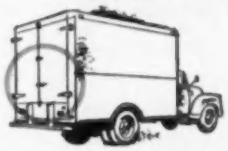
THE QUESTION	THE SUGGESTION	A BETTER JOB WITH (E)
What lock does the job on a refrigeration or big van body? It must be lockable for cargo protection and husky.	 **Modified EBER - "GRIP" - HARD Door Lock** No. 7-5625X Ruggedly built with all cast malleable parts. Leverage assures easy closing and frost seal breakage upon opening.	
Is there a heavy panel body door lock with a slam-lock action and key locking facility which can be unlocked from the inside?	 **"SLAMTITE" DOOR LOCK** No. 5607 A long time popular item, inexpensive with multiple operational features. Fool-proof action assures locking by driver.	
Can Eberhard offer anything in a School Bus door lock with added safety features?	 No. 575782 **SCHOOL BUS SAFETY DOOR CONTROL** Features a special plunger switch mounting pad for a step well light and front and rear flashers which operate when door is opened.	
Does Eberhard make a rust resistant, lightweight door hinge with sufficient strength for average jobs?	**A Permanent Mold ALUMINUM ALLOY** 356-T6 (Heat Treated) **HINGE** modern, streamlined design with desired weight saving feature without sacrifice of strength. No. AL-6	
What panel door locks can be used on latest design door construction which requires long clamp lugs?	No. 8-5628 **Modified "CLAMPTITE" DOOR LOCK** A favorite among all truck body builders for more than 20 years. Comes with padlock loop.	
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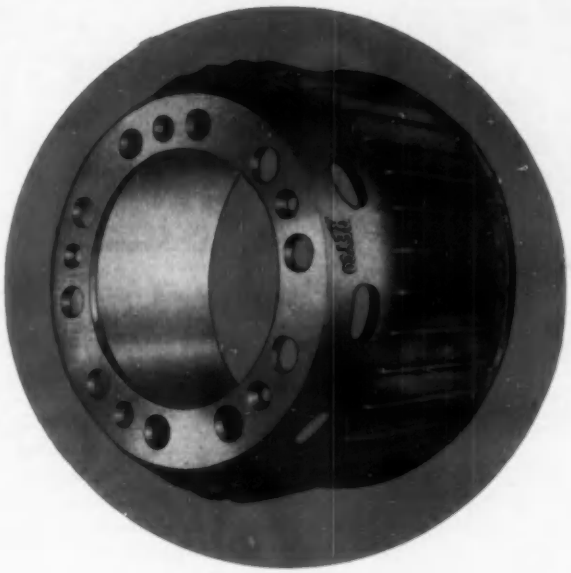

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GEORGIA MOTOR TRUCKING ASSN. INC. (1934), 328 Ponce De Leon Ave., N.E., Atlanta, Sims Garrett, Jr., Exec. V. P.

IDAHO MOTOR TRANSPORT ASSN. (1939), 203 Eastman Bldg., Boise, Kenneth Hartzler, Man. Dir.

CENTRAL MOTOR FREIGHT ASSN. INC. of ILL., Suite 1111, 343 S. Dearborn St., Chicago 4, William Noorlag, Jr., Gen. Mgr.

ILLINOIS MOTOR TRUCK OPERATORS ASSN. INC. (1924), 30 N. LaSalle St., Chicago, Walter E. McCarron, Exec. Dir.

INDIANA MOTOR TRUCK ASSN. INC. (1932), 2905 N. Meridian St., Indianapolis, James Nicholas, Exec. Sec.

***PRIVATE TRUCK OWNERS of INDIANA, INC.,** 1127 Central Ave., Indianapolis 2, C. W. Abraham, Sec.

IOWA MOTOR TRUCK ASSN. INC. (1943), 604 Capitol City Bank Bldg., Des Moines, LeRoy Crowley, Sec. Mgr.

KANSAS MOTOR CARRIERS ASSN. INC. (1936), 2900 S. Topeka Blvd., Topeka, J. R. Halladay, Man. Dir.

KENTUCKY MOTOR TRANSPORT ASSN., INC. (1924), 709-11 Republic Bldg., Louisville 2, Lew Ullrich, Man. Dir.

LOUISIANA MOTOR TRANSPORT ASSN. INC. (1939), 1216 Main St., Box 1326, Baton Rouge, James P. Babington, Exec. Dir.

MAINE TRUCK OWNERS ASSN. (1946), Rm. 313, 415 Congress St., Portland, Edward G. Hough, Acting Exec. Sec.

MARYLAND MOTOR TRUCK ASSN. INC. (1935), 3000 Washington Blvd., Baltimore, Thomas E. Widerman, Gen. Mgr.

MASSACHUSETTS MOTOR TRUCK ASSN. INC. (1919), 262 Washington St., Boston 8, John M. Bresnahan, Exec. V. P.

MICHIGAN TRUCKING ASSN. INC. (1934), 376 Fort Shelby Hotel, Detroit 26, William W. Johnston, Man. Dir.

MINNESOTA MOTOR TRANSPORT ASSN. (1932), 2451 University Ave., St. Paul, Oscar Z. Remsberg, Exec. V. P.

MISSISSIPPI TRUCKING ASSN. INC. (1943), Box 120, King Edward Hotel, Jackson, C. R. Bradley, Mgr.

MISSOURI BUS & TRUCK ASSN. (1937), 628 Jefferson St., Jefferson City, U. G. Lewellen, Sec.

MONTANA MOTOR TRANSPORT ASSN. (1938), 912 Wyoming Ave., Box 1244, Billings, Leonard W. Eckel, Man. Dir.

NEBRASKA MOTOR CARRIERS ASSN. INC. (1924), Suite A, 500 S. 13th St., Lincoln, Paul Halpine, Sec.

NEVADA MOTOR TRANSPORT ASSN. (1939), 1093 S. Virginia St., Box 3037, Reno, Robert Guinn, Managing Dir.

NEW HAMPSHIRE TRUCK OWNERS ASSN. INC. (1936), Box 665, 275 Hanover St., Manchester, A. J. Staby, Sec. Mgr.

NEW JERSEY MOTOR TRUCK ASSN. INC. (1915), 10 Hill St., Newark 2, D. J. Crecca, Exec. Dir.

NEW MEXICO MOTOR CARRIERS ASSN. (1938), Box 541, Albuquerque, Leslie R. Thomas, Man. Dir.

EMPIRE STATE HIGHWAY TRANSPORTATION ASSN. INC., 44 E. 23rd St., New York 10, Jos. M. Adelizzi, Man. Dir.

†PRIVATE TRUCK OWNERS, SHIPPERS AND SUPPLIERS of NEW YORK (1957), c/o Borden Farms Product Div., 110 Hudson St., New York, T. A. Drescher, Pres.

NORTH CAROLINA MOTOR CARRIERS ASSN. INC. (1929), 219 W. Martin St., Raleigh, N. C., J. T. Outlaw, Exec. V. P.

NORTH DAKOTA MOTOR CARRIERS ASSN. INC. (1934), 110 Third St., Bismarck, N. D., Edwin G. Kellner, Secy. Mgr.

OHIO TRUCKING ASSN. INC. (1918), Hotel Deshler-Hilton, Columbus, Ohio, Ellis S. Perlman, Man. Dir.

ASSOCIATED MOTOR CARRIERS OF OKLAHOMA, INC. (1932), P. O. Box 983, Suite 2315 Biltmore Hotel, Oklahoma City, Okla., Fisher Muldrow, Exec. V. P.

OREGON TRUCKING ASSNS. INC. (1939), 1401 N.W. 19th St., Portland, Ore., Robert R. Knipe, Mgr.

PENNSYLVANIA MOTOR TRUCK ASSN. INC. (1928), 7th Floor, Telegraph Bldg., Harrisburg, Pa., Edward Gogolin, Gen. Mgr.

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(TURN TO PAGE 280, PLEASE)

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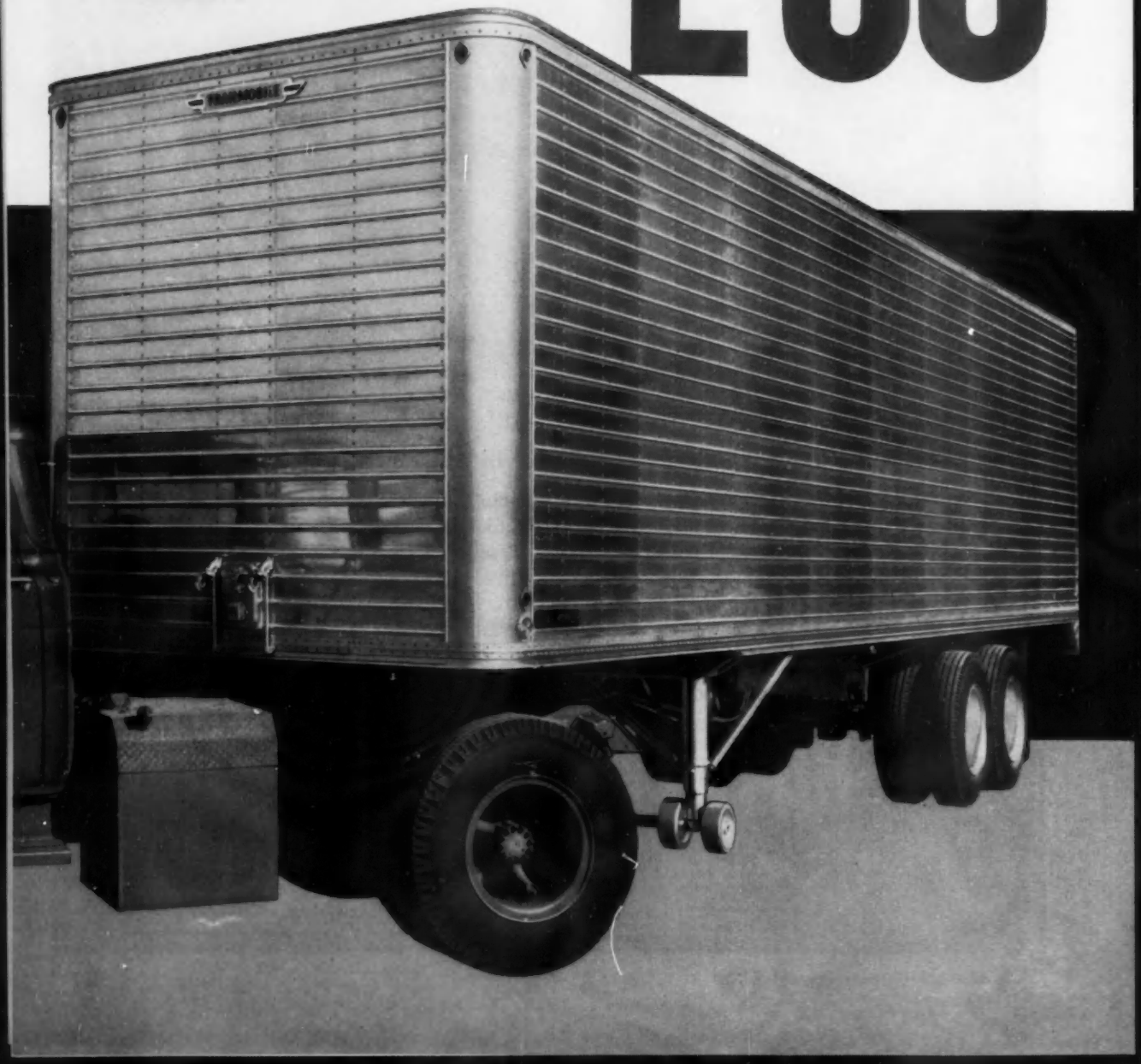

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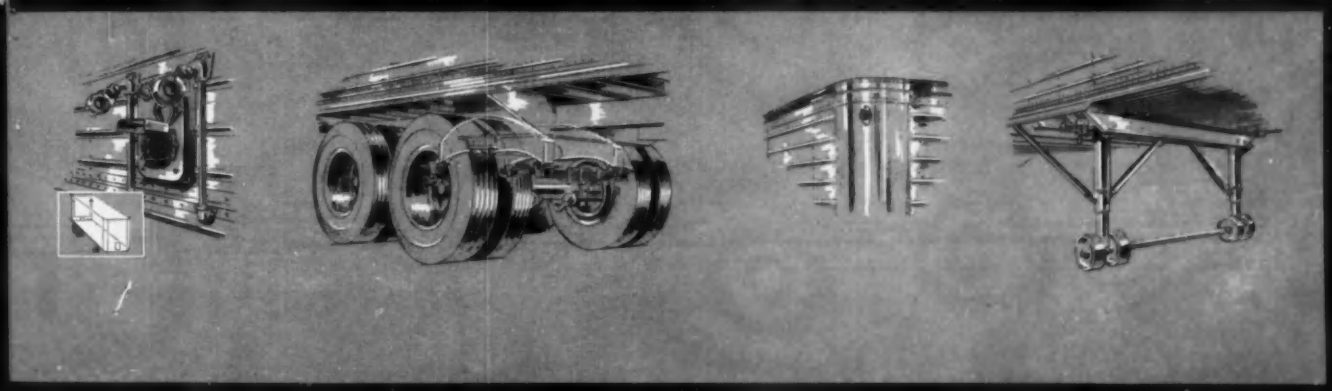

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MOTOR TRANSPORTATION ASSN. OF SOUTH CAROLINA, INC. (1933), 2425 Devine St., Columbia, S. C., William B. Love, Jr., Gen. Mgr.

ASSOCIATED MOTOR CARRIERS, INC. OF SOUTH DAKOTA (1937), P. O. Box 496, 814 E. Rice St., Sioux Falls, S. D., E. R. Nelson, Gen. Mgr.

TENNESSEE MOTOR TRANSPORT ASSN., INC. (1934), Hermitage Hotel Office Bldg., Nashville 3, Bob Mullins, Mgr.

***PRIVATE TRUCK OWNERS ASSN. OF TEXAS, INC.,** Box 1091, Littlefield Bldg., Austin, Carl C. Hardin, Exec. V. P.

TEXAS MOTOR TRANSPORTATION ASSN., INC. (1932), 406 E. 11th St., P. O. Box 92, Austin 61, James E. Taylor, Exec. Dir. (Also buses.)

UTAH MOTOR TRANSPORT ASSN., INC. (1932), 208 W. 8th St., S., Box 686, Salt Lake City 4, L. Darrel Welling, Mgr.

VERMONT TRUCK & BUS ASSOCIATION, INC. (1934), P. O. Box 288, Montpelier, Vt., W. L. McKee, Mgr.

VIRGINIA HIGHWAY USERS ASSN., INC. (1931), Box 1397, Jefferson Hotel, Richmond 11, E. H. Williams, Jr., Exec. V. P.

WASHINGTON MOTOR TRANSPORT ASSN., INC. (1923), 4101 4th Ave., S., Seattle, William E. Hicks, Man. Dir.

WEST VIRGINIA MOTOR TRUCK ASSN., INC. (1936) 303 Duffy St., Box 5217, Charleston, Emmett J. Bush, Man. Dir.

WISCONSIN MOTOR CARRIERS ASSN. (1931), One W. Main St., Madison, John P. Varda, Gen. Mgr.

WYOMING TRUCKING ASSN., INC. (1940), River Cross Addition, P. O. Box 1889, Casper, Walter Kingham, Man. Dir.

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† Independent.

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ATLANTA Section: P. A. Young, 745 Peachtree Circle, Marietta, Ga.

BALTIMORE Section: J. W. Lippert, 1507 Tredegar Ave., Catonsville 28, Md.

BRITISH COLUMBIA Section: R. B. Thicke, Pacific Truck & Trailer Ltd., 1460 Franklin St., Vancouver 9, B. C., Canada.

BUFFALO Section: E. C. Moynihan, 57 Park Dr., Williamsville 21, N. Y.

CANADIAN Section: George R. Jackson, 343 Durie St., Toronto 9, Ont., Canada.

CENTRAL ILLINOIS: W. C. Cadwell, 814 Morris St., Washington, Ill.

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MILWAUKEE: J. W. Mohr, 4535 N. 145th St., Brookfield, Wis.

MOHAWK-HUDSON: F. L. Fina, 10 Forest Ave., Saratoga Springs, N. Y.

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NORTHWEST: M. E. Earnheart, Truck Welding & Equipment Co., 739 Ninth Ave., N., Seattle 9, Wash.

OREGON: F. D. Fulton, 1735 N. E. Skidmore St., Portland, Ore.

PHILADELPHIA: E. L. Dold, Phila. Electric Co., 2301 Market St., Phila., Pa.

PITTSBURGH: M. J. Boegel, Gulf Res. & Dev. Co., P. O. Drawer 2038, Pittsburgh 30, Pa.

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VIRGINIA: E. B. Sidoli, Jr., Bingham Truck Service, 107 W. Canal St., Richmond, Va.

WASHINGTON: C. P. Hoffman, Jr., Hydro-Aire, Inc., Wire Bldg., Suite 808, 1000 Vermont Ave., N.W., Washington 5, D. C.

WESTERN MICHIGAN: M. V. Dadd, 2532 White St., R.F.D. 68, Muskegon, Mich.

WICHITA: H. J. Varhanik, 6713 E. 10th St., Wichita, Kansas.

WILLIAMSPORT: G. R. Schramm, 1165 Park Ave., Williamsport, Pa.

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Liquid-Cooled Brake Goes on

One major showing, says Wagner, is longer lining life—104,000 miles for drive axle with liquid-cooled brake, 539,000 miles for other axles using conventional drum, air brakes as used on the test rig

SINCE ITS announcement late last fall (Dec. '58, page 106), Wagner Electric's new liquid-cooled disc brake has been tested on a rugged, 6362-mile run.

Wagner took a conventional tandem-axle tractor and tandem-axle semi-trailer combination, loaded it to 60,000 lb GCW. It left the conventional drum, air brakes on all axles except the tractor drive axle. On this, it installed the liquid-cooled brake and put a selector valve in the cab to give the driver a choice of three braking combinations. . . .

1. Conventional drum, air brakes down the line including the tractor trailing axle, or . . .

2. Conventional drum, air brakes on the trailer and tractor front axle plus liquid-cooled disc braking on the tractor drive axle, or . . .

3. The liquid-cooled brake alone.

From Wagner's plant in St. Louis, Mo., it made a round trip through Kansas, Colorado, Utah, Nevada, Arizona, California, Oregon, Washington, Nebraska and back to Missouri. As well as extremes of hot and cold weather, the brakes got a work-out on some of the toughest downhill runs the trucking industry encounters.

Average disc lining wear for the trip was 0.0064 in. per brake. Average copper wear in the carriers (see photos at left for part identification) was 0.005 in. Lining wear on the conventional drum brakes averaged 0.0074 in. per brake.

Says Wagner, assuming a ¾-in. lining thickness on the conventional drum brakes with ⅝-in. of usable lining, they could run for 539,000 miles before relining. On the liquid-cooled brake with 3/16-in. lining thickness and 3/16-in. copper thickness, relining would not be required before 104,000 miles, based on a minimum total lining and copper wear of 0.186 in.

During the 6000-mile trip, 3867 brake applications were made . . . but only 832 required the conventional drum brakes. Another reason for the longer lining life reported above: Conventional drum brakes were used for very short periods while the disc brakes were applied for continuous periods—up to 10 min.

In addition to longer lining life, the liquid-cooled brake cuts maintenance by being quicker to service. The lining disc and copper carrier on both ends of the axle can be replaced in less than an hour.

Other advantages of the liquid - cooled - on - drive-axle-plus-conventional-drum-brakes-on-other-axles combination cited by Wagner include . . .

- More consistent vehicle speed and less downshifting since the driver can use his brakes more freely.
- Less unsprung weight than with conventional drum brakes.
- Greater heat dissipation and elimination of brake fade.

In addition to the normal city and cross-country brake applications made on the 6000-mile test trip, here are highlights of some of the tougher downhill runs:

Berthoud Pass is in the Rocky Mountains west of Denver, Colo. Toughest part is a 13-mile stretch on the eastern side with 4 to 6 per cent downgrade as the highway drops 3500 ft. Smoking brakes are often seen here, and rigs often stop to check their brakes before starting down.

Wagner made one run down at 35 mph in direct drive—4th gear—using only the liquid-cooled brakes. A successful test stop was made 9.4 miles down the grade. On another run with the liquid-cooled brakes cut out, drum temperature on the conventional brakes reached 540 deg after 6.7 miles.

Salt Lake City, Utah, is at the end of a 10-mile downgrade posted for 20 mph and "Trucks Use Low Gear." Test rig came down at 20 mph in 3rd gear—one under direct, using only the liquid-cooled brakes.

Mountain Pass is a 16.7-mile long downgrade on U. S. 91 some 30 miles east of Baker, Calif. Here a check was made on a 72,000 lb GCW train composed of a 3-axle truck pulling a 4-wheel trailer with 10-in. wide lining, conventional drum brakes.

Its speed was 35 mph in 7th (8-speed transmission). About halfway down, the rig pulled down to 20 mph and the brakes were smoking at the end of the run. With only the liquid-cooled brake, Wagner's 60,000 lb GCW rig came safely down in 4th at 40 mph.

6000-mile Test

Tejon Pass, north of Los Angeles, Calif., on U. S. 99 is known to truck drivers as the "Grapevine." It has a 26.6-mile south slope relieved by two short upgrades totalling four miles. The last 4.3 miles are a constant 5.74 per cent downgrade.

Using a full set of conventional drum brakes on this last stretch produced drum temperatures of 560 deg after three miles of travel. With the liquid-cooled brake, drum temperatures remained under the outside (ambient) temperature of 60-65 deg for the whole 4.3 miles.

Note: On the conventional drum run, the liquid-cooled brake was cut in for the remaining 1.3 miles. Despite this aid, the conventional drums still measured about 175 deg 20 min after their 560-deg peak.

Donner Pass on U. S. 40 is a well-known "toughie." Its 3.3-mile east slope has a steep 7.65 per cent average downgrade. Wagner's rig made it at 20 mph using the water-cooled brake only.

Dunsmuir, Cal., lies at the bottom of a 3.4-mile 5 per cent downgrade. It's had experience in the past with runaway brake failures. Now there's a brake check area at the top of the grade.

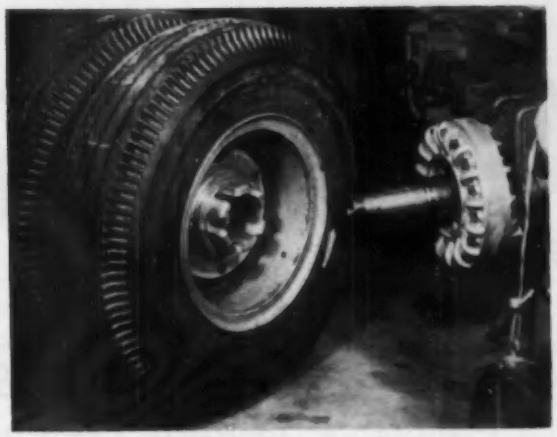
With the liquid-cooled brake cut out, a downgrade run was made in direct—4th. Drum temperatures reached 380 deg. No temperature boost was recorded using the liquid-cooled brake alone.

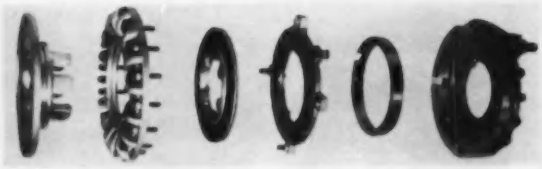
Snoqualmie Pass near Seattle, Wash., has a 16-mile downgrade—up to 4.26 per cent in some cases. With conventional drum brakes alone, drum temperatures went to 580 deg. They stayed normal when the liquid-cooled brake was used for braking.

As can be seen from the above, the liquid-cooled, disc brake can be used as a retarder in combination with conventional drum brakes. They can be set for a selected application pressure, up to 30 psi for example. At this point, further application on the foot pedal cuts in the conventional drum brakes.

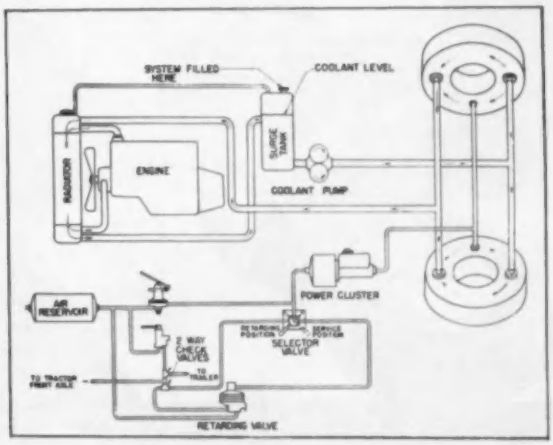
Brake capacity of the liquid-cooled brake can be increased by (1) adding additional discs and/or (2) increasing the coolant flow. This last is usually accomplished by addition of a "heat storage" tank in the coolant line (see plumbing diagram). Wagner's test vehicle was so equipped.

Cooling tends to balance. Brakes demand cooling on downgrades when there's less demand for cooling from the engine. Incidentally, coolant does not come in contact with the actual braking surfaces.





Top view shows liquid-cooled brake assembly on the axle, driver component—replacing the conventional drum—on the wheel. Directly above are the major components. From left: 1—Driver. 2—Outer housing containing coolant passages connecting to the inner housing and riveted copper friction plate. 3—Disc with lining bonded to both sides and teeth that lock it to driver when brake is applied. 4—Moveable carrier with riveted copper friction plate and coolant connection. 5—Circular piston that pushes moveable carrier against lining disc and, in turn, the disc against the outer housing when brake is applied. 6—Inner housing with coolant and hydraulic connections. Drawing below shows coolant and air/hydraulic plumbing. For complete details on the mechanical operation of this brake, see Dec. '58, page 106.



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New line of engines builds-up this way (from left): 3, 4 and 6-cyl models with 3¾-in. bore, 4½-in. stroke. Each has a larger version with 4-in. bore and the same stroke. Then follows the smallest 6 in turbocharged version. Next comes a multi-fuel 6 with 4½ x 5-in. bore and stroke in naturally-aspirated or turbocharged models. Next in line, measured by displacement, is a "square" V-8 with 4¾ x 4¾-in. bore and stroke. It too is a multi-fuel engine in natural-

Hercules Announces 13 New Diesel Engines

Maker recommends them for 3,000 to 38,000 lb GVW, up to 76,800 lb GCW, says the lighter models should be of interest in the repowering of gas engine trucks

The New Engines in Brief

Model No.	Cyl.	Bore and Stroke (in.)	Disp. (cu in.)	Max. Torque (lb ft @ rpm)	Max. Hp (@ rpm) On-Highway	Max. Hp (@ rpm) Construction and Industrial
DD-149H	3	3¾ x 4½	149	114 @ 1400	46 @ 2600	43.5 @ 2200
DD-169H	3	4 x 4½	169	130 @ 1400	52 @ 2600	49 @ 2200
DD-198H	4	3¾ x 4½	198	156 @ 1500	72 @ 2600	64.5 @ 2200
DD-226H	4	4 x 4½	226	178 @ 1500	78 @ 2600	72 @ 2200
D-298H	6	3¾ x 4½	298	240 @ 1600	112 @ 2800	86 @ 2200
D-339H	6	4 x 4½	339	270 @ 1500	120 @ 2800	106 @ 2200
D-298HT[1]	6	3¾ x 4½	298	265 @ 2800	150 @ 3000	120 @ 2000
D-426[2]	6	4¼ x 5	426	320 @ 1800	145 @ 2600	130 @ 2200
D-426T[1,2]	6	4¼ x 5	426	406 @ 1900	180 @ 2600	145 @ 2000
DV8-662[2]	V-8	4¾ x 4¾	662	440 @ 1700	200 @ 2600	180 @ 2200
DV8-662T[1,2]	V-8	4¾ x 4¾	662	560 @ 2000	260 @ 2600	230 @ 2000
D-779	6	5¼ x 6	779	585 @ 1500	240 @ 2400	215 @ 2000[3]
D-779T[1]	6	5¼ x 6	779	765 @ 2300	350 @ 2400	270 @ 1800

1—Turbocharged. 2—Multifuel engines (diesel, kerosene, JP-4 fuel, 85 octane gasoline). Ratings shown are fo diesel fuel. 3—200 @ 1600 industrial.

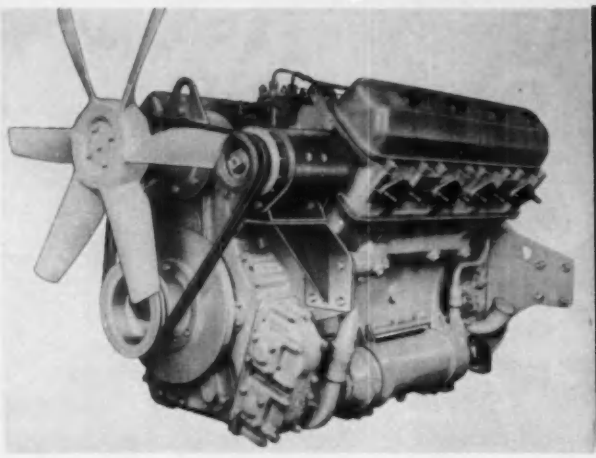
HERCULES HAS a whole new line of diesel engines. As briefed in the chart above, there are 13 models ranging from 50 to 350 hp.

The 50 to 180-hp models are designed for light and medium trucks up to 55,000 lb GCW. For heavier work, there are 200 to 350-hp models for up to 76,800 lb GCW.

Although actual GVW capabilities depend on the using fleet's operation, Hercules says in general they go something like this . . .

- 3000-6000 lb GVW—the 3-cyl DD-149H or DD-169H.
- 6000-12,000 lb GVW—the 4-cyl DD-198H or DD-226H.
- 12,000-24,000 lb GVW—the 6-cyl D-298H or D-298HT.
- 22,000-38,000 lb GVW—the 6-cyl D-426H or D-426HT.

Included in the line are three turbocharged models. Of special interest, four models are multi-fuel engines.



ly-aspirated and turbo-charged versions. Not shown is the largest model in the new line. It's a straight diesel, 6-cyl engine with bore and stroke of 5¼ x 6 in. Both naturally-aspirated and turbocharged versions are offered. Design feature of the new multi-fuel fuel engines is use of self-cleaning pintle-type fuel nozzes together with a new combustion chamber turbuence insert for a minimum of diesel knock. The Diesel-only models have multiple orifice nozzles

They'll operate on kerosene, JP-4 jet fuel and 85-octane gasoline as well as on diesel fuel.

Hercules says the lighter models should be of interest in repowering gasoline engine trucks.

The entire line can be used in trucks and buses as well as in construction equipment in both intermittent (automotive) and constant speed (industrial) applications. It can be divided between the diesel-only models and the multi-fuel models.

The diesel-only models— the 3-cyl DD-149H and DD-169H, the 4-cyl DD-198H and DD-226H, and the 6-cyl D-298H, D298HT, D-339H, D-779 and D-779T—have single-plunger type fuel injection pump with integrally-built fuel transfer pump. Multiple orifice injection nozzles are used. Variable speed mechanical governor is standard.

Lubrication is force feed with gear-type pump to all con rods, main bearings, camshaft and rocker arm bearings. Cooling is by a high velocity centrifugal pump.

Cylinders are cast iron. Dry-type special alloy sleeves are available on the Model Nos. DD-149H, DD-198H, D-298H and D-298HT. Model Nos. D-779 and D-779T use special alloy iron, replaceable, wet liners. Crankcase and block are an integral iron casting. Cylinder head is a one-piece casting.

Pistons are of heat-treated aluminum-alloy. Full-floating-type alloy-steel piston pin is used. Surface-hardened steel crankshaft has four bearings on 3-cyl, five on 4-cyl and seven on 6-cyl models. Camshaft is helical gear-driven. There are three camshaft bearings on 3- and 4-cyl models, four on the lighter 6-cyl models and seven on heavier 6's. Con rods are heat-treated high-alloy steel. Intake and exhaust valves are high-alloy forgings.

The multi-fuel engines— the 6-cyl D-426 and D-426T and the V-8 DV8-662 and DV8-662T—have pintle-type, self-cleaning fuel nozzles. Maker says they'll "stay in proper condition for possibly 100,000 miles." New combustion chamber turbulence insert (see photo above right) is designed to give minimum of diesel knock, good fuel economy.

All four engines have heat-treated aluminum alloy pistons, chain-driven camshaft with seven bearings, heat-treated high-alloy steel connecting rods, variable-speed mechanical governor, high velocity gear-driven centrifugal water pump.

The 6-cyl models have cast iron one-piece block and head with dry-type cast iron cylinder liners. Heads have all six cylinders in one casting. Crankshaft has seven bearings. Fuel injection pump is individual plunger type chain-driven from camshaft. Fuel transfer pump is also plunger-type built integrally with the fuel injection pump.

Lubrication is by gear-type pressure pumps inside crankcase and built integral with engine. Forced-feed is to all main, con rod, rocker arm and front camshaft bearings. Weight-less electrical equipment, air cleaner and fan—of naturally aspirated model is 1350 lb.

The V-8 models have one-piece block cast from aluminum alloy with wet-type inserted cylinder liners cast from alloy iron. There are four head, one for each two cylinders. Crankshaft has five bearings. Fuel injection pump is same type as on the 6-cyl models. It's gear-driven from camshaft inside the "V" of the block. Fuel transfer pump is gear type.

Lubrication is through gear-type scavenging and pressure pumps inside gear housing at front of engine. Main flow lube oil filter and oil cooler are built integral with engine. Weight of naturally aspirated model—less electrical equipment, air cleaner and fan—is 1540 lb.

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GMC 1960 Truck Line

GMC's 1960 Trucks

Model	Engine	Optional Engine(s)
CONVENTIONAL GASOLINE		
1000	305A	—
1000 Suburban	305A	—
K1000 (4 x 4)	305A	—
K1000 Sub. (4 x 4)	305A	—
1500	305A	—
K1500 (4 x 4)	305A	—
2500	305A	—
V3000	305A	—
V3500	305A	—
V4000	305B	305C
V4000 (Opt.)	305B	305C
V4000 (Opt.)	305B	305C or 351
A4000	305B	305C or 351
V & A5000	351	—
V & A5000 (Opt.)	351	—
"B" CONVENTIONAL GASOLINE		
BV4000	305B	305C
BV4000 (Opt.)	305B	305C
BV4000 (Opt.)	305B	305C or 351
BA4000	305B	305C or 351
BV & BA5000	351	—
BV & BA5500	401	—
BV & BA6000	401	—
BV & BA6000 (Opt.)	401	—
B7000	702	—
B7000 (Opt.)	702	—
BWV & BWA5000	351	—
BWV & BWA5000 (Opt.)	351	—
BWV5500	401	—
BWV5500 (Opt.)	401	—
BWA5500	401	—
BWA5500 (Opt.)	401	—
BW7000	702	—
BW7000 (Opt.)	702	—
BW9000	702	—
BW9000 (Opt.)	702	—
TILT CAB GASOLINE (72" BBC)		
LV4000	305B	305C
LV4000 (Opt.)	305B	305C
LV4000 (Opt.)	305B	305C or 351
LA4000	305B	305C or 351
LV & LA5000	351	—
LV & LA5500	401	—
LA6000	401	—
LA6000 (Opt.)	401	—
L7000	702	—
L7000 (Opt.)	702	—
LWV & LWA5000	351	—
LWA5500	401	—
LWA5500 (Opt.)	401	—
LW7000	702	—
LW7000 (Opt.)	702	—
LW7000 (Opt.)	702	—
FORWARD CONTROL		
P1500	270	—
P2500	270	—
SCHOOL BUS		
SV4000	305B	305C
SV4000 (Opt.)	305B	305C
SV4000 (Opt.)	305B	305C
SV4000 (Opt.)	305B	305C or 351
SA4000	305B	305C or 351
SV & SA5000	351	—
SPV & SPA5000	351	—
"B" CONVENTIONAL DIESEL		
DB7000	6V-71	6V-71
DB7000 (Opt.)	6V-71	6V-71
DB7000 (Opt.)	6V-71	6V-71
D860	6-71SE	6-71SE
D860 (Opt.)	6-71SE	6-71SE
DBW7000	6V-71	—
DBW 7000 (Opt.)	6V-71	—
DBW7000 (Opt.)	6V-71	—
DBW9000	6V-71	—
DBW9000 (Opt.)	6V-71	—
TILT CAB DIESEL (72" BBC)		
DL7000	6V-71	6V-71
DL7000 (Opt.)	6V-71	6V-71
DLW7000	6V-71	—
DLW7000 (Opt.)	6V-71	—
DLW7000 (Opt.)	6V-71	—
TILT CAB DIESEL (48" BBC)		
DF7000	6V-71	6V-71
DF7000 (Opt.)	6V-71	6V-71
DF7000 (Opt.)	6V-71	6V-71
DLR8000	6-71SE	6-71SE
DFR8000	6V-71	6V-71
DFW7000	6V-71	—
DFW7000 (Opt.)	6V-71	—
DFW7000 (Opt.)	6V-71	—

Four new cabs are used—two conventional

GMC'S 1960 TRUCK line centers around its new V-block engines—diesel and gasoline.

Only Series to use an in-line engine are the P1500 and P2500 forward control models (6-cyl, 270 gasoline engine) and the D860—carried over from the 1959 line—and DLR8000 (6-cyl, 6-71SE diesel engine).

All the other engines, as described in the chart below, are V-6's . . . except for the Twin Six V-12 used in the gasoline-powered 7000 and 9000 Series models.

Full mechanical details on the V-block engines were released earlier this year (diesels—Jan., page 80; gasoline—Aug., page 114), but the power ratings shown here are new.

Chart at left shows the complete GMC line of trucks for 1960—together with available engines. All models—except the 860 Series — have four digit numbers.

Letters ahead of the numbers are used for identification as follows . . .

- Cab type—B for the 90-in. BBC (bumper - to - back - of - cab) model, L for the 72-in. model plus the 48-in. BBC model with 50-in. front axle set back, F for the 48-in. BBC model with 28-in. front axle location, P for forward control chassis and S for school bus chassis. All other models have 105-in. BBC cab.
- Brakes — V for vacuum-hydraulic and A for air. All others

GMC's 1960 Truck Engines

Model No.	Disp. (cu in.)	Comp. Ratio	Bore and Stroke (in.)	Horsepower (@ rpm) Gross	Horsepower (@ rpm) Net	Torque (lb ft @ rpm) Gross	Torque (lb ft @ rpm) Net
IN-LINE, 6-CYL, GASOLINE							
270	269.5	7.75-1	3.78 x 4	133 @ 3600	120 @ 3600	244[1]	220 @ 1400
V-6, 6-CYL, GASOLINE							
305A	304.7	7.75-1	4.25 x 3.58	150 @ 3600	125 @ 3600	260[2]	240[3]
305B	304.7	7.75-1	4.25 x 3.58	150 @ 3600	127 @ 3600	266[4]	245[4]
305C	304.7	7.75-1	4.25 x 3.58	165 @ 3800	142 @ 3800	270[5]	250[5]
351	351.2	7.5-1	4.56 x 3.58	180 @ 3400	155 @ 3400	312[6]	288[5]
401	400.9	7.5-1	4.87 x 3.58	205 @ 3200	178 @ 3200	377 @ 1400	351 @ 1400
V-12, TWIN-SIX, 12-CYL, GASOLINE							
702	702.4	7.5-1	4.56 x 3.58	275 @ 2400	250 @ 2400	630[7]	585[3]
IN-LINE, 6-CYL, DIESEL							
6-71SE	425.6	17-1	4.25 x 5	189 @ 1800 210 @ 2100	175 @ 1800 192 @ 2100	577 @ 1200	553 @ 1200
V-6, 6-CYL, DIESEL							
6V-71	425.6	17-1	4.25 x 5	189 @ 1800 210 @ 2100	175 @ 1800 192 @ 2100	577 @ 1200	553 @ 1200

1—@ 1300-2000 rpm. 2—@ 1600-2000 rpm. 3—@ 1600-1800 rpm. 4—@1200-1400 rpm. 5—@ 1400-1600 rpm. 6—@ 1600-2000 rpm. 7—@ 1600-1900 rpm.

Centers around V-block Engines

with 105 and 90-in. BBC and two tilt models with 72 and 48-in. BBC

have straight hydraulic brakes.

- Engines—D for diesel. All others are gasoline-powered.
- Special features—R for air suspension (DFR8000), K for 4-wheel drive, W for tandem rear axle models.

Note on the chart, standard diesel engine for single rear axle models is the 189-hp version of the engine indicated. On these, the 210-hp version of the same engine is optional. On tandem rear axle diesel models, the 210-hp version is standard.

The line can be divided by cab styles—or, more accurately, by bumper-to-back-of-cab dimension. For accessibility, the B-cab with 90-in. BBC has a 3-piece hood—lift-up side sections and a swing-out access door—that bares the engine. The L-cab with 72-in. BBC and F-cab with 48-in. BBC tilt a full 55 deg forward.

Major mechanical details, GVW and GCW ratings and principal options on GMC's 1960 truck line are given on the following pages divided by cab types. Two other options are power steering on 4000 Series and up models and increased cooling capacity on 3000 through 6000 Series gas models.

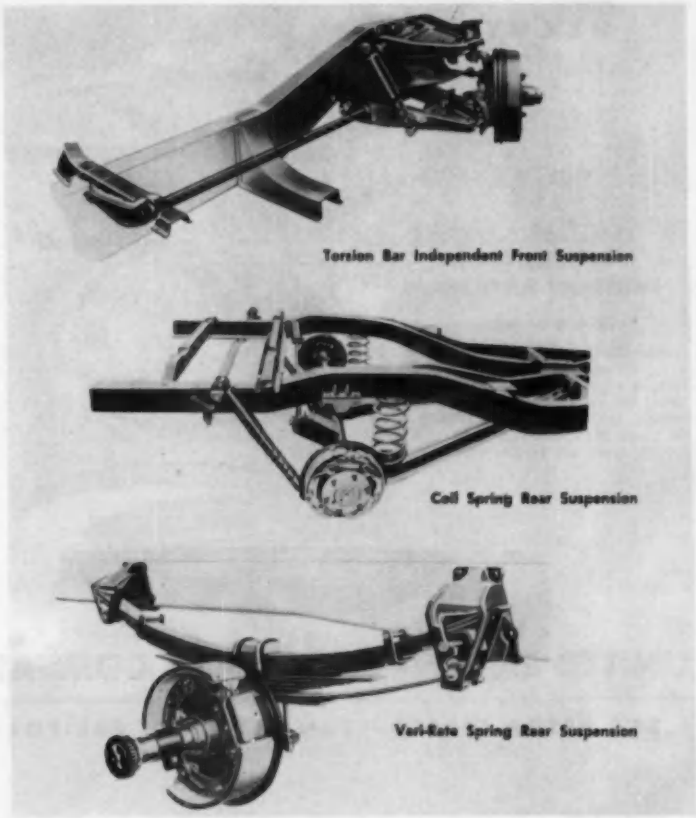
Torsion bar independent front wheel suspen-

(TURN TO PAGE 294, PLEASE)

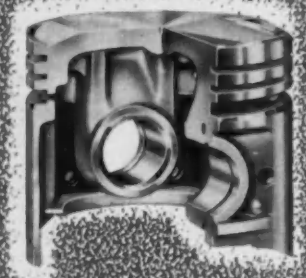
GMC's 1960 Brake Sizes

Series	Brake[1]	Size (in.) Front	Size (in.) Rear
1000	H	11 x 2	11 x 2
1500[2]	H	11 x 2¾	11 x 2¾
2500[3]	H	11 x 2¾	13 x 2½
3000	V	11 x 2¾	15 x 4
3500	V	14 x 2½	15 x 4
4000[4]	V	14 x 2½	15 x 4
4000	A	15 x 3	15 x 5
5000[5]	V/A	15 x 3	15 x 6
5500[6]	V/A	15 x 3	15 x 7
6000	V	15 x 3½	16 x 6
6000	A	15 x 3½	16½ x 6
7000[7]	A	15 x 3½	16½ x 6
880	A	17¼ x 3	16½ x 6
8000[8]	A	16¼ 3½	16½ x 5½
9000	A	15 x 3½	16½ x 7

[1]—H = hydraulic, V = vacuum-hydraulic, A = air. [2]—K1500 front 12 x 2, P1500 front and rear 12 x 2. [3]—P2500 front 12 x 2 rear 14 x 2½. [4]—LV4000 front 15 x 3. [5]—SP5000 and LW5000 front 15 x 3½. [6]—BW5500 and L5500 front 15 x 3½. [7]—DLW7000 and LW7000 front 15 x 4. BW7000 and LW7000 rear 15 x 7. [8]—DFR8000 rear 16½ x 6.



Give Your Engines the Red Carpet Treatment



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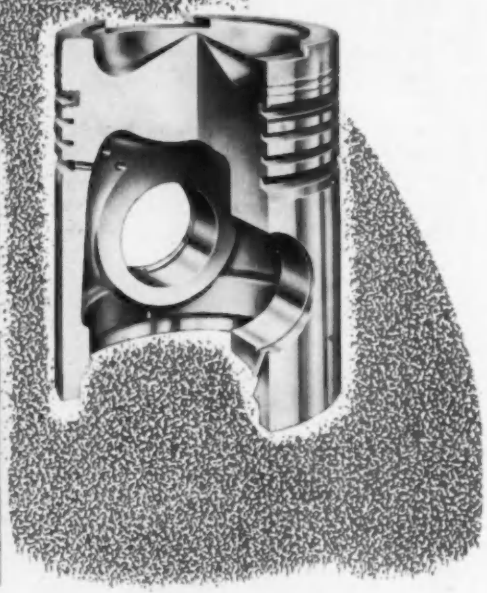

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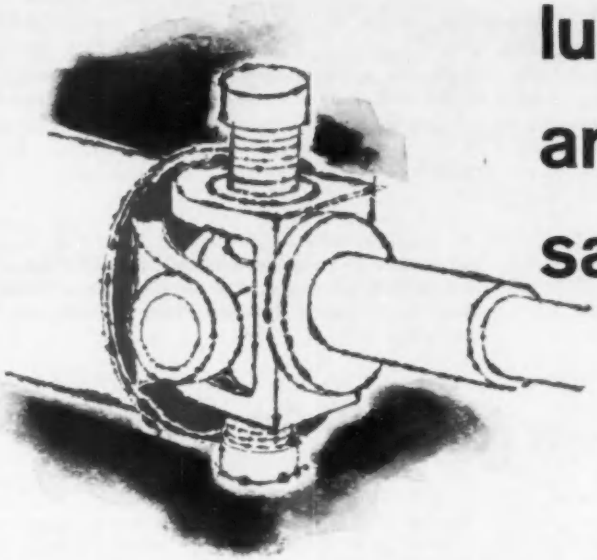

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GMC 1960 Truck Line

Continued from Page 291

sion is new this year. In varying capacities, it's used on 1000 through 5000 Series single rear axle models with 105, 90- and 72-in. BBC cabs . . . except 4-wheel drive models. An air suspension version is used on the 8000 Series.

Also new are coil spring rear suspension as used on the 1000 and 1500 Series . . . except 4-wheel drive models. New vari-rate spring rear suspension is used on 3500 through 7000 Series models.

Advantages claimed for the new independent front suspension are better steering control, softer ride through use of softer springs, reduced wheel shimmy and tramp, avoidance of tire scuffing and lower center of gravity.

105-in. BBC Cab Models

Series	CA (in.)[1]	GVW (lb) Standard	GVW (lb) Optional	GCW (lb) Standard	GCW (lb) Optional
1000	42, 54	5,200 (4-wheel drive — 5,600 lb)			
1500	54	7,500 (4-wheel drive — 8,100 lb)			
2500	54, 60	10,000	—	—	—
3000	60, 84	14,000	—	—	—
3500	60, 72, 84, 102	16,000	—	—	—
4000	60, 72, 84, 102, 124	19,500[2]	23,000[3]	35,000	—
5000	60, 72, 84, 102, 124	24,000	25,000	40,000	45,000

[1]—back-of-cab-to-centerline-rear-axle. [2]—with air brakes, 23,000 lb. [3]—also optional with vacuum-hydraulic brakes, 22,000 lb.

Conventional cab, 105-in. BBC (bumper-to-back-of-cab), models all have the new independent front wheel suspension (except 4-wheel drive models) and hydraulic-actuated clutch.

Standard rear axles are hypoid, single-reduction on all but the 5000 Series models where a spiral-bevel single-reduction is used.

The 1000 and 1500 Series have coil spring rear (again except 4-wheel drive models) and hydraulic brakes. Hydraulic-actuated 10½-in. dia clutch is standard with 11-in. optional. Standard transmission is 3-speed synchromesh with 4-speed synchromesh or Hydra-matic as options. Also optional is the Powr-lock no-slip differential.

Four-wheel drive models have leak springs front and rear with the 11-in. clutch and 4-speed transmission standard.

Leaf spring rear suspension is used on the balance of these 105-in. BBC models. Standard clutch on 2500 and 3000 Series is the 10½-in. model with the 11-in. optional. Standard transmission is a 4-speed synchromesh with Hydra-matic optional on the 2500 Series.

Brakes on the 2500 Series are hydraulic. On the 3000 and 3500 Series they are vacuum-hydraulic. The 4000 and 5000 Series are available with vacuum-hydraulic or air brakes.

Standard clutch on the 3500 Series is a 12-in. dia model. Transmission is 4-speed synchromesh with Hydra-matic optional on the 84 and 102-in. CA models.

The 4000 and 5000 Series have 12-in. clutch as standard with a 13-in. model optional. Standard transmission is 4-speed synchromesh with a heavier duty 4-speed or 5-speed synchromesh optional. Also optional are 2-speed rear axles.

90-in. BBC Cab Models

Series	CA (in.)[1]	GCW (lb) Standard	GCW (lb) Optional	GCW (lb) Standard	GCW (lb) Optional
SINGLE REAR AXLE					
4000	60, 72, 84, 114, 126[2]	19,500[3]	23,000[4]	35,000	—
5000	60, 72, 84, 114, 126[2]	24,000	—	40,000	—
5500	60, 72, 84, 102, 120	25,000	—	50,000	—
6000	60, 72, 78, 84, 102, 120	30,000	32,000	55,000	—
7000	72, 78, 84, 102, 120	31,000[5]	40,000[6]	60,000	76,000
860	78, 102	30,000	33,000	60,000	65,000
TANDEM REAR AXLE					
5000	84, 102, 120	35,000	37,000	50,000	—
5500	84, 102, 120, 126[7]	43,000	45,000[8]	60,000	—
7000	84, 102, 120, 126	45,000	52,000[9]	65,000	76,000[9]
9000	102, 110, 144	59,000	64,000	90,000	120,000

[1]—back-of-cab-to-centerline-rear-axle (centerline-between-axles on tandem rear models). [2]—126-in. model with vacuum-hydraulic brakes only. [3]—23,000 lb with air brakes. [4]—also optional with vacuum-hydraulic brakes, 22,000 lb. [5]—30,000 lb with diesel engine. [6]—also optional with diesel engine, 31,000 lb. [7]—126-in. model with air brakes only. [8]—48,000 lb with air brakes. [9]—also optional with diesel engine, 38,000 lb GVW, 72,000 lb GCW.

Models with new "B" conventional cab, 90-in. BBC (bumper-to-back-of-cab), come with single or tandem rear axle, gasoline or diesel power. All have hydraulic-actuated clutch.

Included in this group is the D860 with its own 90-in. BBC cab. "So popular with diesel operators that it is carried over into the 1960 model line . . ." says GMC.

Independent front wheel suspension is used on the single rear axle 4000, 5000 and 5500 Series, with leaf spring rear suspension. All other models have leaf springs front and rear.

Vacuum-hydraulic or air brakes are offered on the 4000, 5000, 5500 and 6000 Series, air brakes only on the 7000, 860 and 9000 Series.

Clutch on the 4000 and 5000 Series is the 12-in. dia

model with 13-in. optional. On the 5500 and 6000 Series, 13-in. dia is standard with 14-in. optional. Standard on the 7000 and 9000 Series is the 14-in. The 860 Series have a 14-in., 2-plate clutch.

Four-speed transmissions are standard on the 4000, 5000, 5500 and 6000 Series. For the 4000 Series, a heavier-duty 4-speed and a 5-speed unit are optional. The 5-speed option is also available on the single-axle 5000 Series. On tandem-rear 5000's, a 3-speed auxiliary is offered as an option.

On the 5500 and 6000 Series, options include two 5-speed units—direct-in-fifth or low-ratio. Also on 5500 Series tandem rear axle models, there's a 4-speed auxiliary option.

Standard rear axle on the 4000 Series is hypoid, single reduction. Spiral bevel, single reduction is standard on the single axle 5000 Series as well as on the 5500 and 6000 Series. On the tandem rear axle (W) 5000 Series, it's a hypoid, single reduction unit. Two-speed options are offered on the single rear axle 4000, 5000, 5500 and 6000 series.

Standard transmissions on 7000, 860 and 9000 Series models are 5-speed units. On the 860 models, it comes with a 2-speed, electric shift rear axle. Optional on the 860's is a 10-speed transmission with single reduction rear.

On the gasoline-powered 7000 Series, standard rear axle is a hypoid, single reduction unit. Optional on these are two double reduction rears for use with optional 2-speed auxiliary on single rear axle models or optional 2- or 3-speed auxiliaries on tandem rear axle models.

For the diesel-powered 7000 Series, a 2-speed rear is standard. The double-reduction rear option comes with 3- or 4-speed auxiliary. Also optional is a spiral bevel, single-reduction rear teamed with either a 10 or 12-speed transmission. Options on the tandem rear axle, diesel-powered 7000's include spiral bevel or hypoid, single reduction axles with 10 or 12-speed transmission. The double reduction rear option is used with a 3- or 4-speed auxiliary.

Worm-drive, tandem rear axle with 5-speed transmission is standard on the 9000 Series. Optional on gasoline-powered models is a 3-speed auxiliary transmission and a double reduction rear axle.

Forward Control and School Bus Chassis

Series	Length (in.)[1]	GVW (lb) Standard	GVW (lb) Optional
FORWARD CONTROL CHASSIS			
1500	182½, 206½, 230½	7,500	—
2500	206½, 230½	10,000	—
SCHOOL BUS CHASSIS			
4000	268, 295, 323, 349[2]	19,500[3]	23,000[3]
5000	323, 349	24,000	—
SP5000	354½, 400½	26,000	—

1—for forward-control models and SP5000 pusher bus chassis—overall frame length; for 4000 and 5000 engine-forward bus chassis—cowl-face-to-end-of-frame. 2—268-in. length not available on air-braked models; 23,000 lb GVW standard on air-braked models. 3—also on vacuum-hydraulic braked models, 18,000 and 22,000 lb.

Forward Control models are the only ones in GMC's 1960 truck line to use an in-line, 6-cyl, gasoline engine.

They have leaf springs front and rear, hydraulic brakes, 11-in. dia hydraulic-actuated clutch, hypoid, single reduction rear axle. On 1500 Series models, a 3-speed transmission is standard. On 2500 Series models, it's a 4-speed unit. Hydra-matic is optional on both Series.

Conventional school bus chassis with cowl and front-mounted engine come with vacuum-hydraulic or air brakes, independent front suspension, leaf spring rear, 12-in. dia hydraulic-actuated clutch, and 4-speed transmission. Rear axle on 4000 Series models is a hypoid, single reduction unit. On 5000's, it's a spiral bevel, single reduction unit.

Optional on these conventional chassis are 13-in. clutches, 5-speed transmissions, 2-speed rear axles. On 4000 Series models, there's also a heavier duty 4-speed transmission option. Vacuum-hydraulic braked 4000's also have as options two additional hypoid, single reduction rear axles.

On the SP 5000 Series pusher, rear-mounted engine chassis, there's a choice between vacuum-hydraulic or air brakes. Leaf springs front and rear are standard, as is a 12-in. dia hydraulic-actuated clutch, 5-speed transmission and hypoid, single reduction rear axle. A 2-speed rear is optional.

72-in. BBC Cab Models

Series	CA (in.)[1]	GVW (lb) Standard	GVW (lb) Optional	GCW (lb) Standard	GCW (lb) Optional
SINGLE REAR AXLE					
4000	72, 84, 96, 108, 126	19,500[2]	23,000[3]	35,000	—
5000	78, 84, 96, 108, 126	24,000	—	40,000	—
5500	78, 84, 96, 108, 126	27,000	—	50,000	—
6000	78, 84, 96, 108, 126	30,000	32,000	55,000	—
7000	78, 88, 96, 108, 126	33,000[4]	40,000[4]	60,000	76,000
TANDEM REAR AXLE					
5000	102, 120	37,000	—	50,000	—
5500	102, 120, 138	45,000	48,000	60,000	—
7000	102, 120, 138	45,000	52,000[5]	65,000	76,000

1—back-of-cab-to-centerline-rear-axle (centerline-between-axles on tandem rear models). 2—23,000 lb on air-braked models. 3—also on vacuum-braked models, 22,000 lb. 4—32,000 lb standard, 33,000 lb optional on diesel-powered models. 5—also 48,000 lb.

New COE 72-in. BBC (bumper-to-back-of-cab) models come with single or tandem rear axle, gasoline or diesel power. All have hydraulic - actuated clutch.

Single rear axle 4000, 5000 and 5500 Series models have the new independent front wheel suspension, with leaf spring rear suspension. All others have leaf springs front and rear.

Air brakes are offered on all models in this goup with vacuum-hydraulic available on the single rear axle 4000, 5000 and 5500 Series as well as on the 5000 Series with tandem rear axle.

Standard clutch on the 4000 and 5000 Series is a 12-in. dia unit with 13-in. optional. On the 5500 and 6000 Series, standard diameter is 13 in. with 14 in. optional. The 7000 Series has 14-in. dia standard.

(TURN TO NEXT PAGE, PLEASE)

GMC 1960 Truck Line

Continued from Page 295

Standard transmission on the 7000 Series is a 5-speed unit. All others have 4-speed standard. Rear axle on the 4000, 5000 tandem rear axle and gasoline-powered 7000 Series is of hypoid, single reduction design. Standard on the diesel-powered 7000 Series is a 2-speed rear. Single rear axle 5000, all 5500 and 6000 Series models have a spiral bevel, single reduction rear axle as standard.

Optional on single rear axle 4000, 5000, 5500 and 6000 Series models are 5-speed transmissions and 2-speed rear axles. Also optional in the 4000's is a heavier duty 4-speed transmission. With tandem rear axle, 5500 Series models have 5-speed transmission and 4-speed auxiliary as options.

Gasoline-powered 7000 Series models have a choice of two double reduction rear axles as options, with 2- or 3-speed auxiliary transmissions offered on the tandem rear axle models. Diesel-powered models in the same Series offer a spiral bevel rear axle with either 10- or 12-speed transmission as an option. Tandem rear axle models with diesel engines also offer a hypoid, single reduction rear axle with the 10- or 12-speed units or a double reduction rear combined with 3- or 4-speed auxiliary transmissions.

48-in. BBC Cab Models

Series	CA (in.)[1]	GVW (lb) Standard	GVW (lb) Optional	GCW (lb) Standard	GCW (lb) Optional
SINGLE REAR AXLE					
7000	78, 88, 110	30,000	33,000[2]	60,000	76,000
8000	78, 88, 110[3]	29,000	—	61,000	76,000
TANDEM REAR AXLE					
7000	118, 175	43,000	45,000[4]	76,000	72,000

[1]—back-of-cab-to-centerline-rear-axle (centerline-between-axles on tandem rear models). [2]—also 31,000 lb. [3]—110-in. CA model only available with set-back (50 in. bumper-to-centerline-front-axle) front axle. [4]—also 36,000 lb.

Shortest cab of all, 48-in. BBC (bumper-to-back-of-cab), is used on diesel-powered models only. A sleeper version of the cab measures 72-in. BBC. On these, front axle centerline is 28 in. from front bumper—except on the DLR8000 where it measures 50 in.

All have as standard air brakes, a 14-in. dia hydraulic-actuated clutch, 5-speed transmission and 2-speed rear axle. On 8000 Series models, axle is an electric shift model.

On 7000 Series models, 10- and 12-speed transmissions are optional. On single rear axle models, they're teamed with a spiral bevel, single reduction rear. On tandem rear axle models, the choice is between a hypoid, single reduction unit or a hypoid pusher (drive on rear axle only) unit.

On the DFR8000, there's also a spiral bevel, single reduction rear axle option teamed with 10- or 12-speed transmissions. Optional in the DLR8000 is a 2-speed rear axle without electric shift.

On 8000 Series models, air suspension is standard with independent front wheel suspension. The 7000 Series models have leaf springs front and rear.

For more complete details on these 48-in. BBC cab models, see Nov. '58, page 63—Mar., page 106—Oct., page 103.

November News Roundup

Frantz Elects ATA President

LOS ANGELES, CAL.—Welby M. Frantz, executive vice president of Eastern Express, Terre Haute, Ind., was elected president of American Trucking Assns. at the group's annual convention held here last month. (For details of the convention's doings, see pages 5 and 33, this issue.)

(TURN TO PAGE 298, PLEASE)

The Winners of the ATA Truck Roadeo

The new national champs at the ATA National Truck Roadeo held in Louisville, Ky., in September pay a visit to CCJ's Mobile Editorial Office. Winners (left to right) are: Leo W. Ford, Pilot Freight Carriers, straight truck; Howard J. Pudliner, Motor Cargo, three-axle tractor-trailer; Jesse E. Albright, City Express, Baltimore, Md., four-axle combination; Floyd F. Brown, Motor Cargo, five-axle combination; and Paul P. Rogers, O'Boyle Tank Lines, tanker class.

Safe Delivery... *on Schedule!*

● Your trucks will roll this winter . . . safely . . . and on schedule . . . when equipped with NAPCO ELSTON Sanders.

Just flip a switch . . . and a stream of traction-giving grit drops in front of each drive wheel. Tires dig in . . . your truck rolls on . . . safely . . . *and right on time!*

Prevents Accidents. By providing lightning-fast traction when it's needed, the NAPCO ELSTON Sander helps your trucks up icy hills, through dangerous intersections, and around slippery curves.

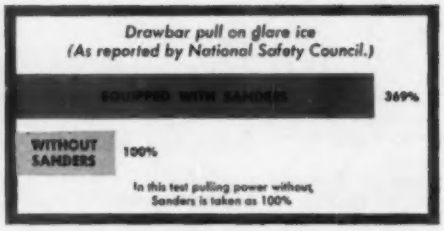
This additional roadbite helps prevent dangerous skids and reduces stopping distances up to 40% on icy highways. This often gives your drivers the margin they need to avoid serious and costly accidents.

Keeps Them Moving. If you have "must-go" vehicles, NAPCO ELSTON Sanders will help you maintain strict schedules despite snow, sleet, or ice. Fewer hours are lost from trucks being stopped or slowed by icy highways . . . by putting on or taking off chains . . . or in repairing damaged equipment. *And those hours cost you money!*

Inexpensive. A NAPCO ELSTON Sander costs less than the price and maintenance of chains, but unlike chains, it's built to last a lifetime.

You'll be surprised how little it will cost to equip your fleet . . . or how much it may save you. Write today for full information.

NAPCO ELSTON SANDERS



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Minneapolis 11, Minnesota
Attention: Director of Marketing

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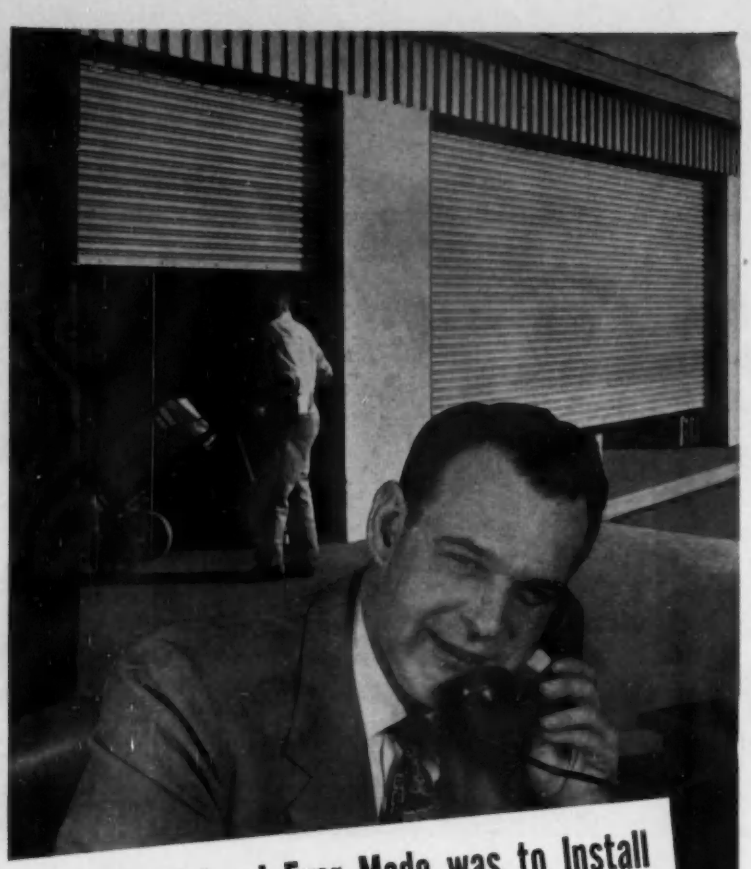

"Best Decision I Ever Made was to Install

Kinnear Steel Rolling Doors

—and here's why . . .

"It's amazing how they withstand year after year of hard daily use, with so little maintenance!

"They save floor and wall space . . . even leave ceiling areas clear for maximum crane, hoist and lift-truck efficiency.

"Good protection, too. Not only against wind and weather, but real all-steel protection against vandals, intruders, and troublemakers."

Kinnear Rolling Doors are made any size, with motor, manual or mechanical controls. Easily installed in old or new buildings. Kinnear's heavy galvanizing assures lasting resistance to the elements, and Kinnear Paint-Bond permits quick, thorough paint coverage with maximum paint-grip. Write for full details.

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FACTORIES:
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Offices and Agents in All Principal Cities

Nov. News Roundup

Continued from Page 296

Elected first vice president was John J. Gill, president of Petroleum Heat & Power Co., Providence, R. I. New third vice president is Clarence Kelly, president of Dixie-Ohio Express, Akron, Ohio. Named fourth vice president was C. L. Sanders, Perkins Freight Lines, Atlanta, Ga. New vice president at large is James B. Godfrey, president of Great American Transport, Detroit, Mich.

Re-elected were R. Stuart Moore (president of Los Angeles-Seattle Motor Express) as second vice president, Harry L. Gormley (president of Keystone-Lawrence Transfer & Storage) as secretary and John M. Akers (president of Akers Motor Lines) as treasurer.

1959 Truck Trailer Shipments

Type of Trailer	August	Eight Months
Vans		
Insulated and refrigerated	449	2,966
Steel	35	389
Aluminum	414	2,577
Semi-insulated	132	723
Steel	132	723
Aluminum		
Furniture	102	1,103
Steel	88	915
Aluminum	14	188
All other closed-top	2,363	16,907
Steel	638	5,233
Aluminum	1,725	13,574
Open-top	346	1,973
Steel	110	804
Aluminum	236	1,169
Total—Vans	3,392	25,572
Tanks		
Non- and low-pressure		
Petroleum		
Carbon and alloy steel	189	1,610
Stainless steel	25	204
Aluminum	161	1,173
Total—Petroleum	375	2,987
Chemical, food, fluid solids	52	335
All other, incl. aircraft refuelers	122	1,167
High pressure (LPG), chemicals, etc.	26	231
Total—Tanks	575	4,720
Pole, pipe and logging		
Single axle	32	237
Tandem axle	92	786
Total	124	1,023
Platforms		
Racks, livestock and stake	40	342
Grain bodies, all types	92	1,174
Platforms (flats), all types	885	7,120
Total—Platforms	1,017	8,636
Low-bed heavy haulers	154	1,763
Dump trailers	197	1,715
All other trailers	209	1,991
Total—Complete Trailers	5,668	45,420
Trailer chassis	214	2,766
Total—Trailers and Chassis	5,882	48,165

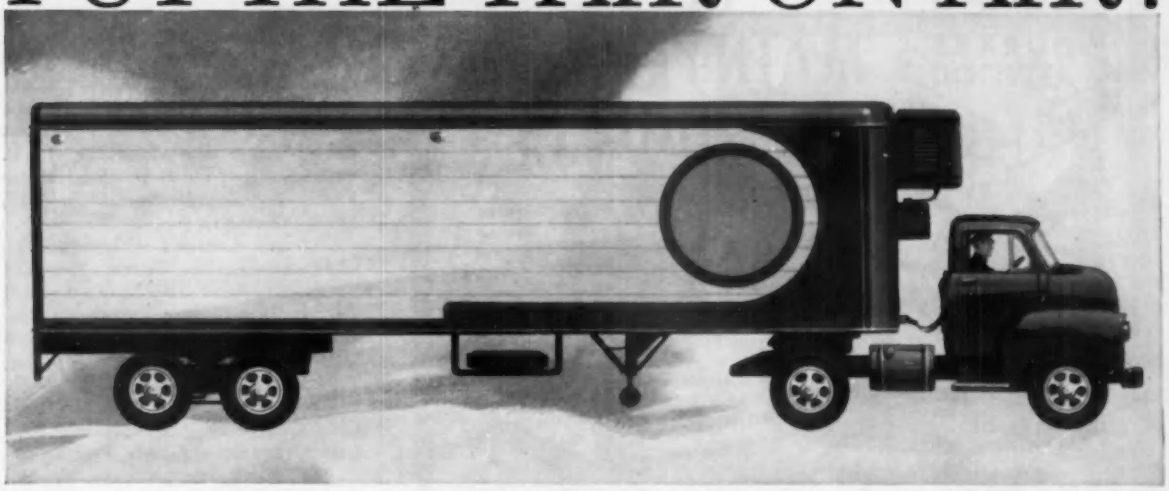
Source: Industry Division, Bureau of the Census.

Conferences Elect Officers

Several of the ATA Carrier conferences elected new officers during (TURN TO PAGE 300, PLEASE)

Now!
more payload room
for profit
when
you

PUT THE PAIR ON AIR!



Profits get new payload room to grow in with AIRIDE airsprings by Firestone for truck tractors and trailers. AIRIDE airsprings convert waste deflection-space, required by conventional steel spring trailer suspensions, into payload profit space—from 60 to 100 cubic ft. in standard 35-ft. trailers.

AIRIDE airsprings stop road shock from reaching truck, tractor or cargo. Gross vehicle weights can be reduced for bigger payloads with *improved* cargo safety. With AIRIDE airsprings on your truck tractors and trailers, payloads step up as much as one ton per unit! And AIRIDE, the large-capacity, round-type airspring, has been fleet-tested and thoroughly proved over 750 million road miles.

Try AIRIDE airsprings for your fleet. Like other AIRIDE truckers, you'll see substantial reductions in damage claims, tire costs per mile and maintenance expenses. For more profit-making capacity, *plus* lower operating outlays, put the pair—both truck tractors and trailers—on air! Get full details with Firestone's free AIRIDE booklet today. Please write Firestone Industrial Products Company, Noblesville, Ind.

Proved by fleet operators and intercity buses through years of service... totaling over 750 million road miles!

AIRIDE® *AIRSPRINGS for truck tractors and trailers by* **Firestone**

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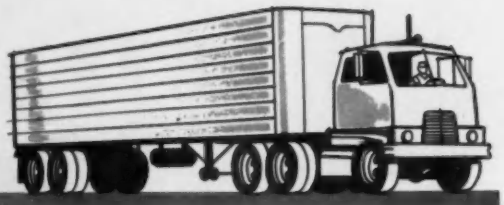
Line Haul Repair and Servicing Cost

Region	Avg. length of haul (miles)	Avg. load (tons)	Repair and servicing cost (cents)[1] Per vehicle-mile Avg.	Range	Avg. per ton-mile
New England	239	9.6	4.8	3.0 - 7.9	0.50
Middle Atlantic	296	10.0	5.5	2.0 - 9.9	0.56
Central	249	11.4	7.6	4.0 - 9.9	0.67
Southern	444	10.5	3.8	2.0 - 5.9	0.36
Northwestern	172	8.9	5.4	2.0 - 7.9	0.60
Mid-Western	323	9.0	4.3	2.0 - 5.9	0.50
Southwestern	397	11.3	4.5	2.0 - 5.9	0.40
Rocky Mountain	1232	13.3	6.0	4.0 - 6.9	0.36
Pacific	447	12.7	5.4	3.0 - 7.9	0.42
United States	348	10.9	5.2	2.0 - 9.9	0.48

[1]—Covering repair and servicing of line haul vehicles only as reported by Class 1 and 2 motor carriers of general freight in Annual Reports to the Interstate Commerce Commission for the year 1957. Only carriers with 5 per cent or less leased mileage are included.

Chart shows the first report from American Trucking Assns. Research Dept. on the long range project underway to develop a maintenance cost yardstick for the trucking industry. It is an ATA Foundation undertaking sponsored by the Budd Co. Next step is to see if there's a significant reason for the regional differences. Final phase is to determine an "allowable failure rate per vehicle." Subsequent data is expected to include private as well as for-hire carriers.

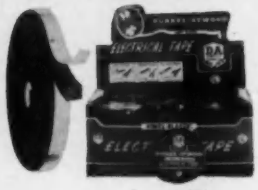
Keep 'em rolling with....



DA DURKEE ATWOOD SINCE 1910

FLEET MAINTENANCE PRODUCTS

Fan Belts and Hose



Sponge Rubber Der-Tite and Tapes

Passenger and Truck Tubes and Repair Material

Automotive Chemicals and Adhesives

Convenient "One-Source" service wherever you are

Save money—and save time—with Durkee-Atwood quality products, backed by a company with 50 years of experience in the automotive field. You get quick single-source service on products you need for maintenance from 16 warehouses located throughout the country. That means you can keep your stock at a minimum—thus saving inventory costs. Every Durkee-Atwood product is completely guaranteed to give you the finest results and performance. *Ask your jobber or write direct.*

16 Factory Warehouses in Major Trading Areas

DURKEE-ATWOOD COMPANY

AUTOMOTIVE DIVISION • MINNEAPOLIS 13, MINNESOTA

Nov. News Roundup

Continued from Page 298

the convention. Included were. . . .

National Automobile Transporters Assn.—Chairman—D. W. Rentzel, president of Auto Transports; Vice Chairman—J. B. Burnham, president of Arco Auto Carriers; Secretary—L. W. Patterson, general manager of Motorcar Transport; Treasurer and ATA Vice President—Lloyd Lawson, president and treasurer of E & L Transport.

Regular Common Carrier Conference—Chairman—R. R. Smith, president of Smith's Transfer; First Vice Chairman—M. P. Murphy, vice president of Gateway Transportation; Second Vice Chairman—A. E. Greene, Jr., president of Johnson Freight Lines; Third Vice Chairman—O. B. English, president of Red Ball Motor Freight; Treasurer — Alvin Hill, president of Hill Lines.

Contract Carriers Conference — Chairman—R. A. Brown, Meadows Transfer; Vice Chairman—Jack Cooper, Jack Cooper Transport; Secretary—W. L. Wise, Miller Truck Line; Treasurer—J. Albert Kramer, Rabiger-Kramer, Inc.

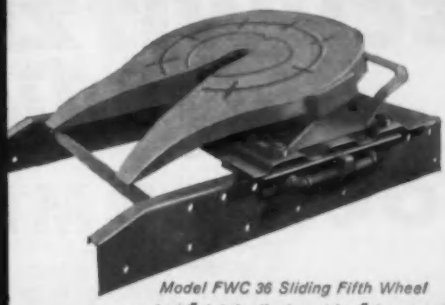
Munitions Carriers Conference—Chairman—Edwin M. Sellers, Baggett Transportation; President—E. F. MacMillan, Navajo Freight Lines; First Vice President—Bennie Goldstein, Goldstein Transportation & Storage; Second Vice President—Graeme Pexton, Constructors Transport; Treasurer—X. O. Bunch, Jr., Hughes Transportation; Secretary—William J. Burns.

Private Carriers Conference—President—John J. Gill, president of Petroleum Heat & Power Co.; Chairman of the Board—Robert J. Van Liew, traffic manager of Blue Bell, Inc.; First Vice President—Henry E. Manker, traffic manager of Proto Tool Co.; Second Vice President—William L. Fayle, director of transportation for Burlington Industries; Secretary—H. D. Carmichael, Stand-

(TURN TO PAGE 302, PLEASE)

STRENGTH
SAFETY
SAVINGS
you get all 3 with
DAYTON HEAVY DUTY FIFTH WHEELS

Model FWC 36 Stationary 36" Fifth Wheel 360° locking surface



Model FWC 36 Sliding Fifth Wheel up to 64" total adjustment in 4" increments

Dayton Universal Conversion Kit converts any fifth wheel. Choice of slide lengths

If you were to buy a fifth wheel today, we're sure you'd want a combination of several things. You'd want complete safety . . . strength but light weight . . . induction-hardened wearing surfaces . . . easy coupling . . . a positive lock . . . and a good, cost-saving lubricating system.

You'd want a fifth wheel that gives thousands of miles of service under exacting conditions without aggravating trips to the maintenance department.

These features you'll find in low cost Dayton Stationary or Sliding *Heavy Duty* Fifth Wheels. There's a Dayton Universal Conversion Kit, too, that converts any fifth wheel to a sliding fifth wheel—INEXPENSIVELY.

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Dayton Automotive Products Co.
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Dayton 1, Ohio

Please send me your latest catalog.

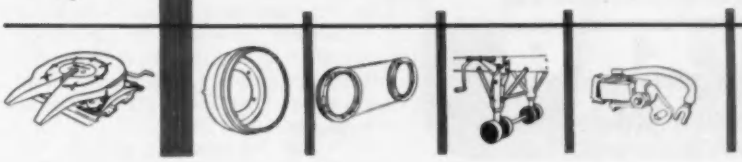
Name_____

Firm_____

Street_____

City_____ Zone_____ State_____

DAYTON FIFTH WHEELS



by The Dayton Steel Foundry Co.
P.O. Box 1022, Dayton 1, Ohio
World's leading manufacturer of cast wheels and brake drums

Nov. News Roundup

Continued from Page 300

ard Oil Co.; Treasurer—Walter J. Hastings, traffic manager of Gilman Paper Co.

1959 Domestic Truck Factory Sales by GVW

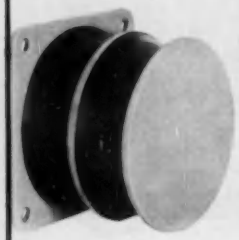
Month	6,000 lb. and less	6,001-10,000 lb.	10,001-14,000 lb.	14,001-16,000 lb.	16,001-19,500 lb.	19,501-26,000 lb.	26,001-33,000 lb.	Over 33,000 lb.	Total
January	42,853	13,979	1,039	7,097	7,954	3,934	2,566	2,177	81,599
February	41,694	13,687	1,131	7,015	8,882	4,970	3,150	3,256	63,775
March	44,744	14,785	1,266	7,927	11,077	5,457	3,952	3,852	93,060
April	47,949	16,322	1,325	9,190	11,449	5,124	3,606	3,736	98,906
May	46,802	14,680	1,272	8,843	12,029	5,035	3,386	3,514	95,561
June	49,180	14,799	1,423	10,217	11,634	6,134	3,609	3,485	100,462
July	46,274	12,110	1,540	9,192	10,348	6,367	3,267	3,148	92,186
August	22,421	6,331	325	2,616	6,901	4,188	2,716	2,382	47,882
8 Mos. 1959	340,931	107,659	9,324	62,087	80,274	41,209	26,385	25,552	693,431
8 Mos. 1958	299,929	69,119	7,909	43,122	47,970	29,638	18,231	17,581	443,699

Source: Automobile Manufacturers Association.

Transit Committee Elects

MINNEAPOLIS, MINN.—At the recent annual meeting of American Transit Assn. held here, A. G. Lyons, Assistant general superintendent, Cars and Shops Dept., New York City Transit Authority, was elected chairman of the Association's Mechanical Division Administrative Committee. New vice chairman is J. T. Hurry, Superintendent Of Equipment, Dallas Transit.

SCHWITZER
Hy-Duty
DOCK BUMPER
PAT. PENDING



• Absorbs Shock
• Long Life
• Adjusts With Load

It's more than a Bumper—It's a Shock Absorber.
Exclusive DEFLECTION principal not found in other bumpers.
Absorbs impact by inner leaf construction and live action.
Relieves stresses that cause trailer damage.
Armored Steel facing protects Resilient Compound from scuffing and tearing.
Fully laboratory and field tested.
Optimum materials provide economy through longer life and maximum protection.
EASILY INSTALLED with Four 3/8" Bolts.
For More Information Write to 1100 MASSACHUSETTS AVE.

SCHWITZER
CORPORATION
INDIANAPOLIS 7, INDIANA U.S.A.

NSC Sections Elect

CHICAGO—At last month's National Safety Congress held here by the National Safety Council, Lorne F. Purves, superintendent of transportation and safety of the Toronto Star, was elected general chairman of the Council's Commercial Vehicle Section. Other Section officers include John A. DePew, director of safety and personnel for Dohrn Transfer, as vice chairman; A. S. Lombardi, director of safety and personnel for Western Truck Lines, as secretary.

Chairman for a second term of the Council's Transit Section is J. Godfrey Butler, director of personnel and labor relations for D. C. Transit System. Other Section officers include Paul J. Fanning, director of the Bureau of Personnel and Safety, San Francisco Public Utilities Commission, as vice chairman; R. D. Cassell, vice president and general manager for Cleveland Transit System, as secretary.

Boynton Elected Maintenance Chairman

CHICAGO—At last month's National Transportation Meeting of the Society of Automotive Engineers, the Subcommittee on Maintenance of the National Committee on Motor Fleet Supervisor Training elected Joseph B. Boynton as its chairman for the coming year. Boynton is assistant vice president of Motor Cargo, West Richfield, Ohio.

Movers Elect Officers

WASHINGTON, D. C.—Movers Conference of America at its annual meeting here recently elected Earnest S. Wheaton of Wheaton Van Lines as its new president. Other officers include Harold J. Blaine of Lyon Van Lines as secretary, Charles R. Israel of Aero Mayflower Transit as treasurer.

(TURN TO PAGE 304, PLEASE)

Stainless Steel tanks weigh less . . . carry more . . . last longer

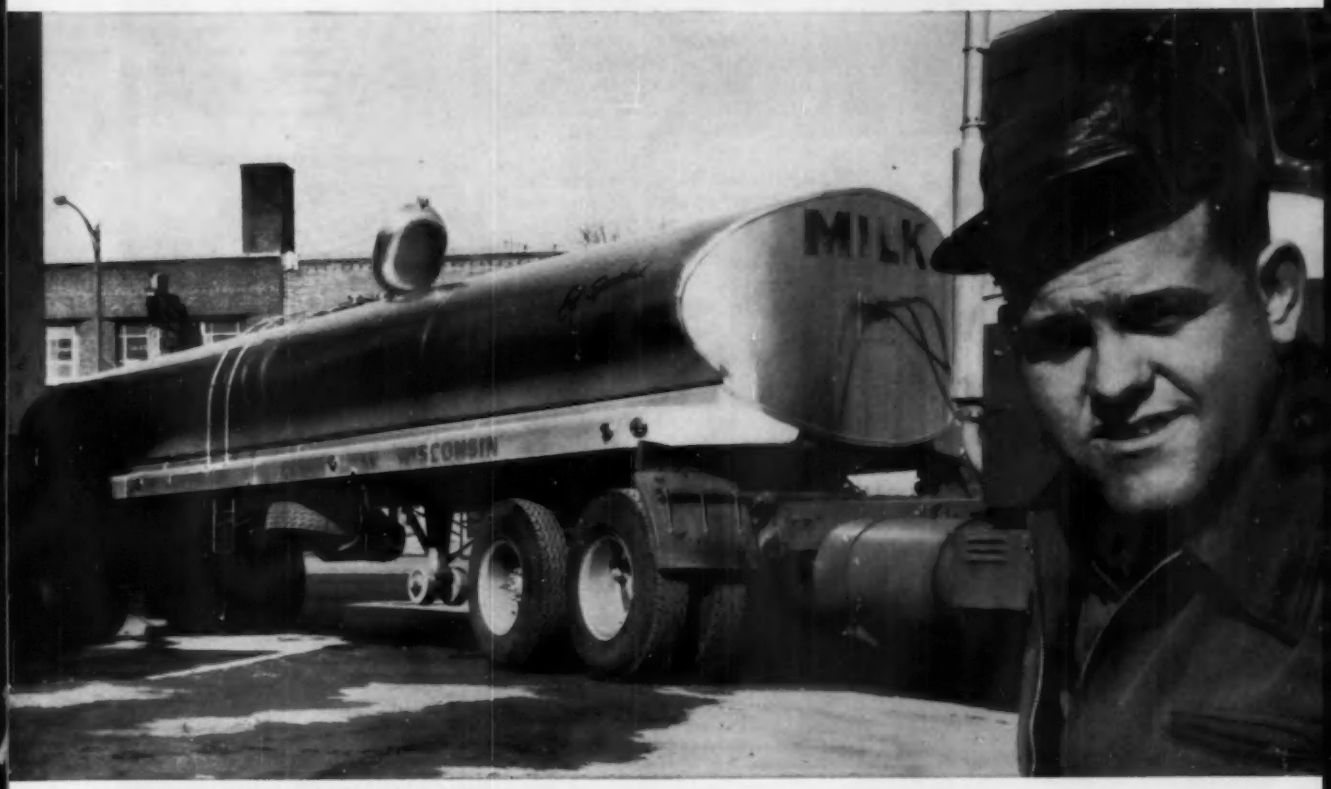
"We'd go crazy trying to keep our tanks clean if they were made from anything but Stainless Steel," says Ed Spurlock. He hauls 86,000 pounds of milk a day from Clear Lake, Wisconsin, to Minneapolis, and all his tanks are Stainless Steel inside and out.

"We wash the inside of the tanks every day with a special acid solution. It keeps the Stainless Steel lining clean as a mirror, but it would corrode any other type of metal.

"These tanks carry a heavier legal payload. Because Stainless Steel is so strong, our tanks' walls are thinner and 400 pounds lighter—so each truck carries 400 pounds *extra* payload per trip."

For more information on USS Stainless Steel, write United States Steel Corporation, 525 William Penn Place, Pittsburgh 30, Pa.

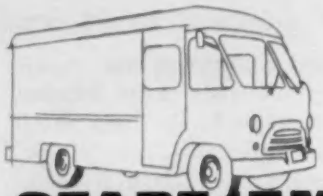
USS is a registered trademark



This 5000-gallon milk transport trailer tank was built by Stainless and Steel Products Company, St. Paul, Minnesota.

United States Steel Corporation—Pittsburgh
American Steel & Wire—Cleveland
National Tube—Pittsburgh
Columbia-Geneva Steel—San Francisco
Tennessee Coal & Iron—Fairfield, Alabama
United States Steel Supply—Steel Service Centers
United States Steel Export Company

United States Steel



START 'EM FAST ON WINTER'S COLDEST DAYS!

ZERO START ENGINE HEATERS

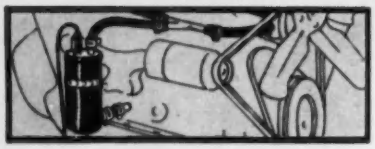
Get a Fast Start Every Day...

INSTALL ZERO-START ENGINE HEATERS

- Guaranteed fast starts
- Immediate warm engine efficiency
- Eliminate need for costly indoor storage
- Payloads arrive on time

Available in three types, head-bolt—dipstick—tank. A size and model engineered for your trucks and tractors . . .

America's Quality Line



Distributed in Canada by: Pitt Distributing Co. Ltd. 80 George Street, Toronto 2, Canada

Call your distributor or write

PHILLIPS MANUFACTURING COMPANY
8200 Grand Avenue
Minneapolis 20, Minnesota

Nov. News Roundup

Continued from Page 302

Blue Bell, Inc., Greensboro, N. C., has purchased 18 Diamond T tilt-cab diesel tractors, Model No. 921CN. They pull Trailmobile 40-ft vans to deliver the company's clothing products throughout the country. The new tractors have the Cummins NH 220 diesel, Shuler FE11 front axle, R96 RoadRanger transmission and the Timkin R140 rear axle. Other equipment includes Ross TE71 steering gear, Kelley Springfield 10.00 x 22 tires, Luberfiner 750 oil filter, Spicer 14-in. two-plate clutch, Berg 1500 Breakaway valve, ASF Model No. 400 C fifth wheel, Bostrom seats and Pittsburgh "Solex" windshields.

Wilsey-Bennett Food Products Co., Oklahoma City, Okla., has added five

(TURN TO PAGE 306, PLEASE)

Self-Loading Electronics Van

Unique feature of the Dorsey Model FC-186 special moving van is the Model No. 5. Tulsa winch built into the nose of the trailer. Winch is electrically powered, operates off the tractor electrical system. It eases loading of sensitive electronic cargo. Van has a 120-in. roadside door, 96-in. curbside doors and 112-in. full double rear door and is equipped with General Logistics Series E tie-down equipment. Wings Van & Storage Co., Long Beach, Cal., owns the unit shown here.

I just push the button for the local speed limit and the light glows if I start to speed.

I'm safe from radar traps and I'm more proud of my driving because I know the boss will see the recorded charts of my good work.

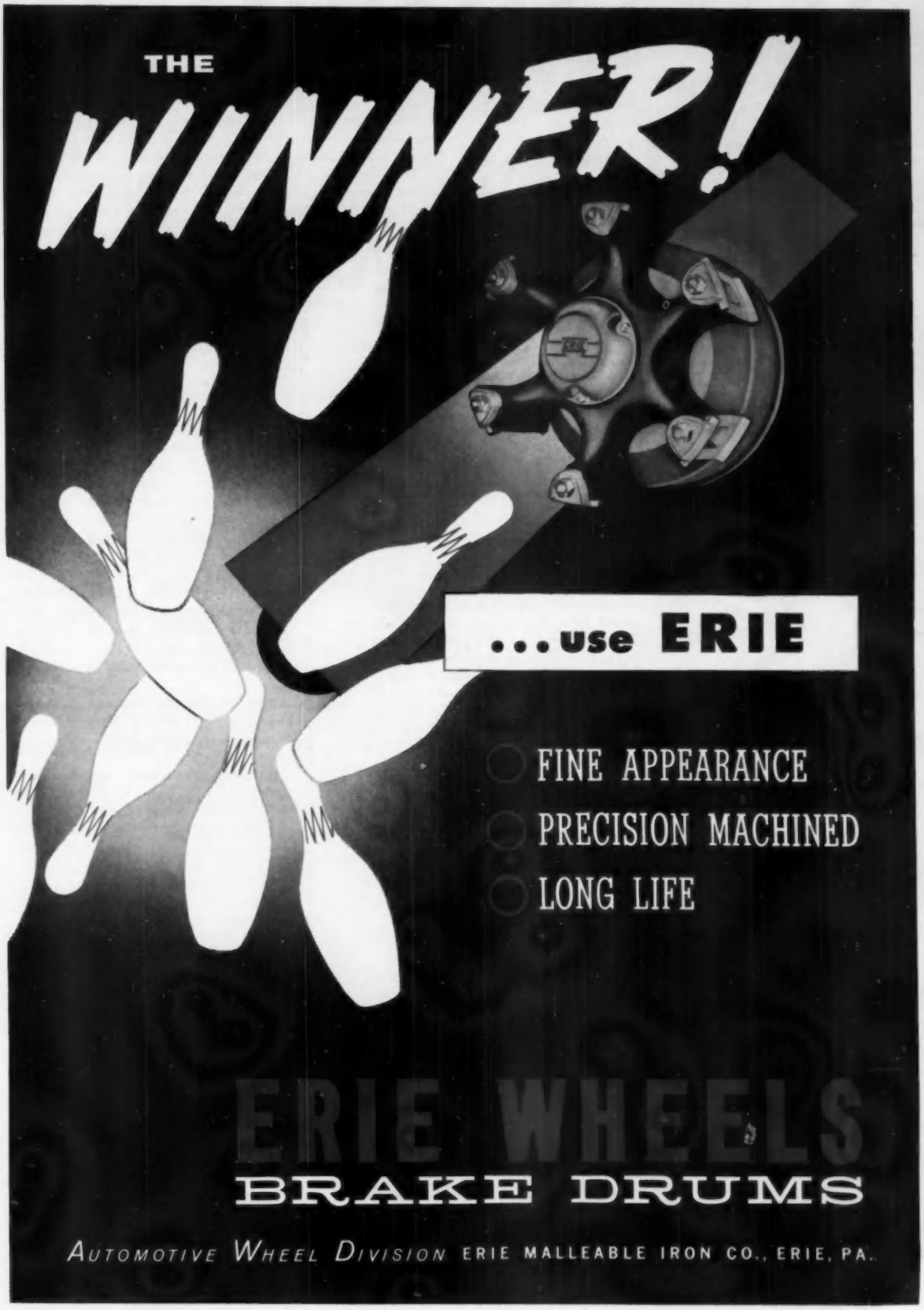
The charts are BIGGER and easier to read. Also Servis Speed Recorders are made for either ONE-DAY charts or THREE-DAY charts.

And the "busy and idle time record" that shows how long I drove and how long I stopped is on the outer edge where it shows up big so the boss can see I've been on the ball.

Oh! and I almost forgot. The push buttons can be detached and put near me on the dash while the recorder can go most anywhere—even at the rear of a pusher bus.

for full information write:

THE SERVICE RECORDER COMPANY
1013F Rockwell Avenue
Cleveland 14, Ohio


THE
WINNER!
...use ERIE
FINE APPEARANCE
PRECISION MACHINED
LONG LIFE
ERIE WHEELS
BRAKE DRUMS
AUTOMOTIVE WHEEL DIVISION ERIE MALLEABLE IRON CO., ERIE, PA.

New Pneumatic Unloading Bulk Trailer

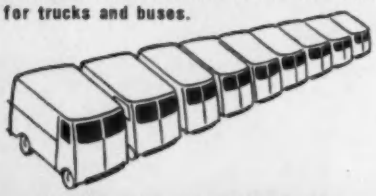
Here's one of six aluminum pneumatic unloading trailers now in service for the Cosden Petroleum Corp., Big Spring, Tex. It hauls polystyrene plastic. Trailer is 28 ft long, is made of Kaiser sheet and plate aluminum. The pneumatic unloading system and body is made by Sprout, Waldron & Co., Muncy, Pa., has a 1182 cu ft capacity. The unloading system handles 15 to 20 tons per hour.

AMERICA'S FLEET OWNERS
KEEP THEM ROLLING WITH
Curtis
EQUIPMENT

All the pressure your men can use—for labor-saving tools.

The Curtis CV Compressor is built for fleet maintenance. Power for painting, lifts, grease-guns, impact wrenches, tire inflation! All the compressed air a shop can use all the time—The right Curtis compressor on the job assures an adequate and dependable supply of air at the proper pressure. Positive self-starting. And self-lubricating Curtis compressors (with Timken main bearings) provide trouble-free service year after year. Sizes 1/4 to 50 H.P.

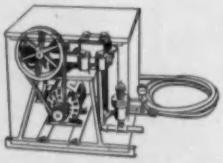
Curtis also manufactures TWO POST LIFTS for trucks and buses.



CURTIS "CV" AIR COMPRESSOR

CURTIS HIGH-PRESSURE WASHER

Keeps trucks, trailers and buses shining with half the effort. 300 lbs. of pressure. A real power wash! Pistol grip nozzle throws fine spray or sharp jet. Knocks off dirt, grit, salt deposits.



C-73

Curtis MANUFACTURING COMPANY
PNEUMATIC DIVISION OUR 105th YEAR

WRITE DEPARTMENT 56 • ST. LOUIS 20, MISSOURI

Nov. News Roundup

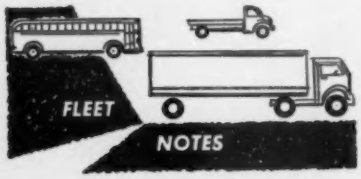
Continued from Page 304

new 38-ft American Aluminum King refrigerated vans to its fleet. Trailers have Page & Page suspension, and 10-in. mountain brakes. Refrigeration is by Transicold and is diesel-powered. Trailers are made by American Body and Trailer, Inc., Oklahoma City.

St. Louis (Mo.) Public Service Co. has ordered 50 new streamlined air-conditioned buses from General Motors at a cost of $1½ million. Delivery is set for the end of the year. All the units will be 50-passenger models.

Spector Freight System, Chicago, has bought 80 new Highway trailers. All are 40-ft tandem axle models.

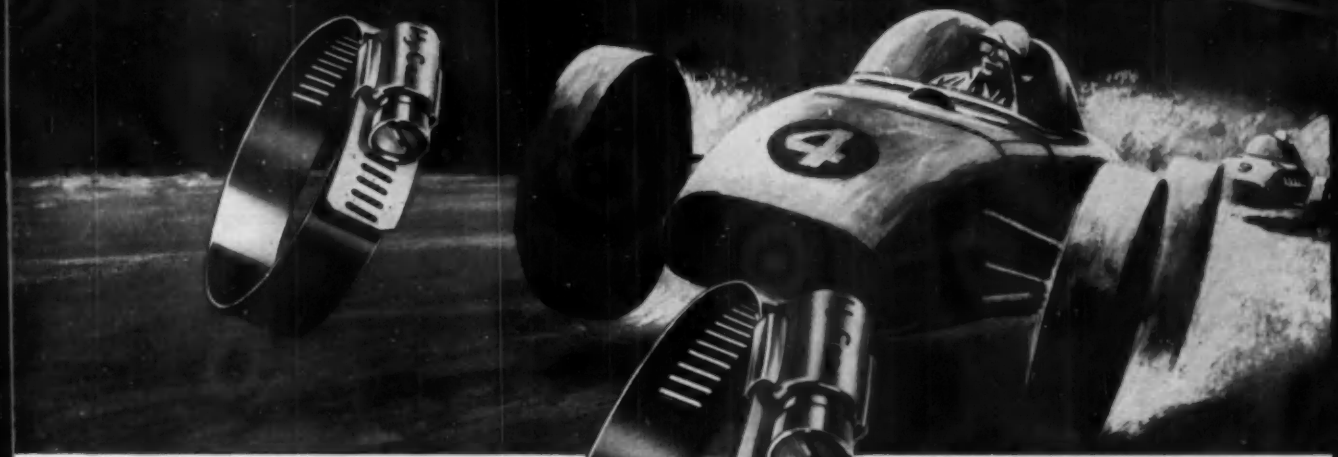
Gateway Transportation Co., Lacrosse, Wis., has added 81 new Highway trailers. Some of the new units are Highway's "Clipper" model with adjustable air-ride tandem suspension. Remainder of the purchase is the Highway outer panel Econovan reefer model, also with adjustable tandem suspension and "Level-Flor" construction. Each has 3-in. insulation in walls and roof and 6-in. in the ceiling.



Transcon Lines, Los Angeles, Cal., is using a new automatic teletypewriter communications system to give faster and more efficient service of freight movements. It connects 24 cities along Transcon's route of operations, handles up to 75 words a min-

(TURN TO PAGE 308, PLEASE)

TORTURE-TESTED

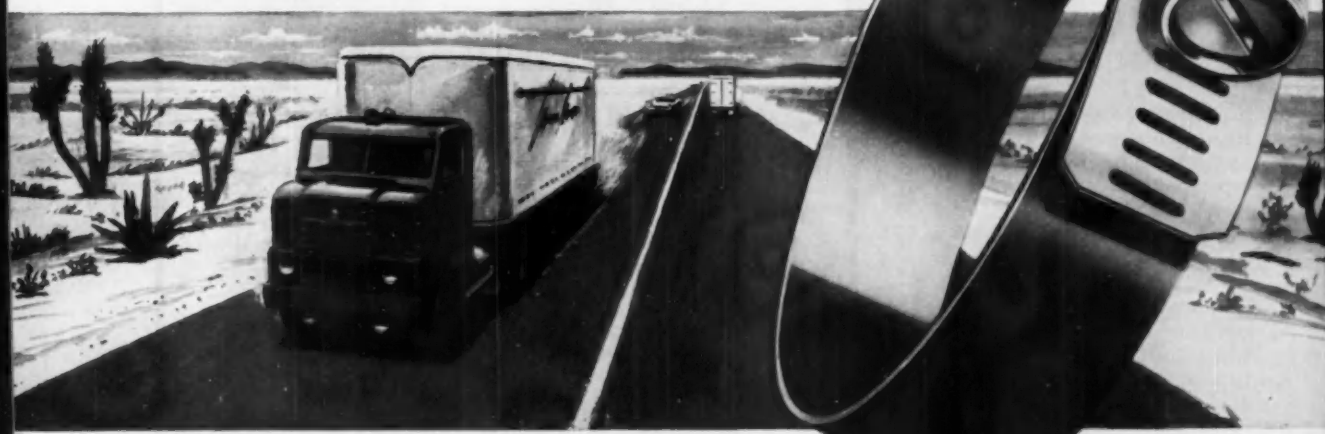


for demanding fleet service!

IDEAL

Hy-Gear

worm drive hose clamps



Every year on every car in the famed "500" racing classic at Indianapolis Speedway, Ideal Hy-Gear Hose Clamps withstand the ultimate in *speed, shock, vibration, heat, pressure!* There's no better way to simulate the punishing conditions of fleet service—no more *positive proof* that Hy-Gear will stand up over the long haul.

Ideal Hy-Gear with stainless steel band and housing and *speedway proved* performance costs no more than the ordinary worm drive clamps. Send for a FREE sample. IDEAL CORPORATION, 435 Liberty Avenue, Brooklyn 7, N. Y.

ideal Corporation

"The speedway is our proving ground".....

Quicker Starting, Better Performing

KILGORE

Flares Provide

SAFETY, LIGHT, CONVENIENCE for Highway Night-Time Emergencies

A pitch-black night . . . a heavily-traveled highway . . . a stalled, unlighted truck . . . a rapidly approaching car . . . all stage props for a serious, costly accident. But, with Kilgore Flares placed ahead, alongside and behind the truck, the oncoming motorist is aware of lurking danger.

Kilgore Automotive and Truck Flares perform in all kinds of weather. Faster starting . . . candle power substantially exceeds minimum requirements . . . convenient, sturdy wire stand or spike . . . plastic plug for greater rigidity. Equip your fleet with Kilgore Automotive and Truck Flares. See your Kilgore dealer.

Kilgore, INC.

INTERNATIONAL FLARE SIGNAL DIVISION

WESTERVILLE 2, OHIO

Nov. News Roundup

Continued from Page 306

ute. System was designed by Bell Laboratories.

Federhofer Inc., St. Louis, Mo., has acquired Public Service Truck Rental Co., a subsidiary of St. Louis Public Service Co.

Muskingum Valley Transit Co., Columbus, Ohio has taken over bus operations of Red Star Way Lines. The line operates between Columbus and Pittsburgh, Pa.

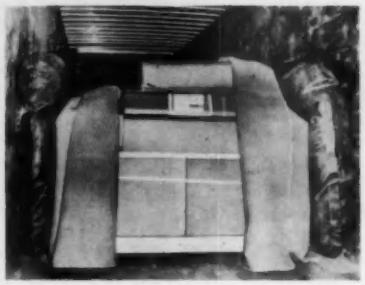
Paul T. Hughes has been named director of maintenance of **Steffke Freight Co.,** Wausau, Wis. Hughes was formerly maintenance superintendent for Burlington Truck Lines.

Fischer Construction Co., Farmington, Minn., recently converted a 10 cu yd 1957 International Model 180 dump truck to diesel power. New engine is the GM 4-53 diesel. The fleet reports the new engine is using about one-half as much fuel as the gasoline engine it replaced.

Consolidated Forwarding Co., Chicago, is installing two-way mobile radio systems in its Chicago PU & D trucks. System includes one base station and 35 mobile units. They will operate on a VHF band frequency and will use Motorola "Private Line" radio equipment.

(TURN TO PAGE 310, PLEASE)

Inflatable Dunnage



Shown here is a shipment of IBM data processing equipment handled by Denver-Chicago Trucking Co. To protect the units and to speed loading, the fleet is using Shor-Kwiks — inflatable cushions made by U. S. Rubber. The Shor-Kwik units shown above have been placed around the IBM equipment and inflated against the trailer sides to prevent shifting.

Learn how "AUTOMATIC SUPERVISOR" on truck promotes savings and safety . . .

WAGNER SANGAMO TACHOGRAPH graphically records starts, idling, stops, speeds of run

A Tachograph mounted on the dash of a truck might well be called an "automatic supervisor." It is a recording speedometer that graphically records trip information needed to make fleet operations more efficient. For a little more than 2¢ per day (the cost of a Tachograph chart) you gain facts that help you reduce wasted time, encourage safer driving and control speed. A Tachograph on a vehicle is almost like having a supervisor actually ride along on every trip. For details, mail the coupon.

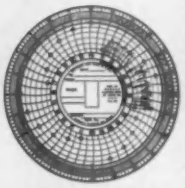


CHART TELLS ALL

Wagner Electric Corporation
6476 PLYMOUTH AVE. • ST. LOUIS 14, MO.
Please send a copy of Bulletin SU-3

Name_____
Company_____
Address_____
City_____ State_____
We operate_____ Vehicles_____ WS59-4

MINER

OPENS AND CLOSES YOUR DOORS *Better*

WHM

MINER

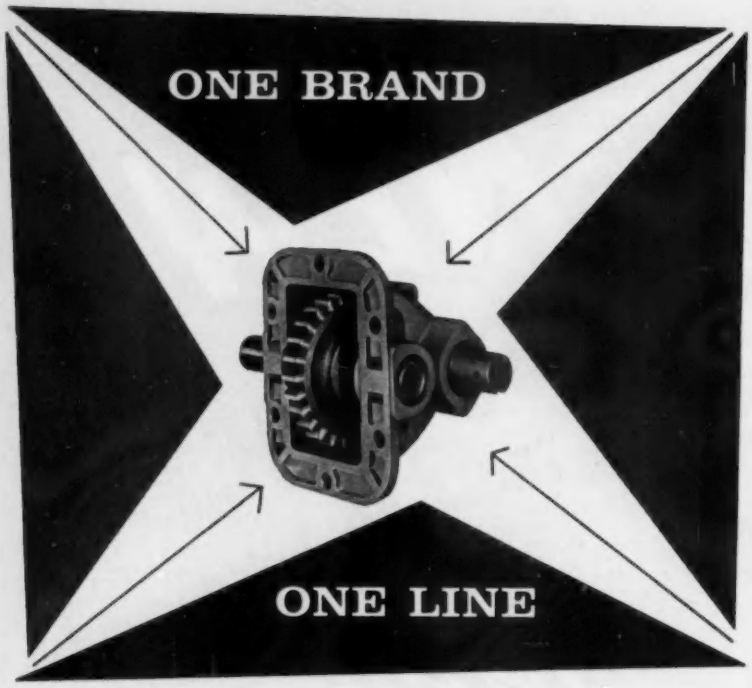
a symbol of quality and excellence in design... backed by 65 Years OF EXPERIENCE

ASK FOR AN ILLUSTRATED FOLDER

W. H. MINER, INC., CHICAGO

Good Will on Wheels

Good will on wheels is the by-word of the J. L. Scheffler Forwarding Co., Chicago. The fleet of Trailmobile trailers carry colorful public service advertisements wherever they go in the mid-west. Shown here is the most recent addition. It's a full color mural of Mormon, Protestant and Catholic churches and a Jewish synagogue, urging onlookers to "Worship in the Church of Your Choice . . . but Go to Church."



COMPLETE line for all applications
TULSA® POWER TAKE-OFFS

The complete line of Tulsa Power Take-Offs means one brand — one inventory — of highest quality, top performance power take-offs. Our ten series — and the many models within these series — provides a power take-off for all types of work and for most transmission applications. Application information for all trucks is revised annually—or more often when necessary — and is available when new truck models are released. For a complete line — with maximum interchangeability — it's Tulsa Power Take-Offs!

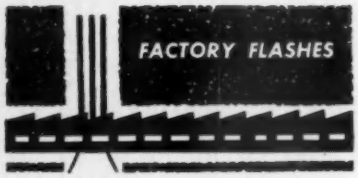
Tulsa Winch

DIVISION OF VICKERS, INCORPORATED • TULSA, OKLAHOMA

Nov. News Roundup

Continued from Page 308

Interstate Motor Lines, Inc., Salt Lake City, Utah, presented safety awards to nine drivers on the Salt Lake City to Las Vegas run who have run up more than 2¼ million miles without an accident.



GMC Truck and Coach Div. has opened a new factory branch at 2450 E. Castor Ave., Philadelphia.

AiResearch Industrial Div., The Garrett Corp., is supplying small turbochargers to Continental Motors Corp. They're installed on Continental's Model No. TD 427 diesel engine to compensate for altitude effect on sea level horsepower rating.

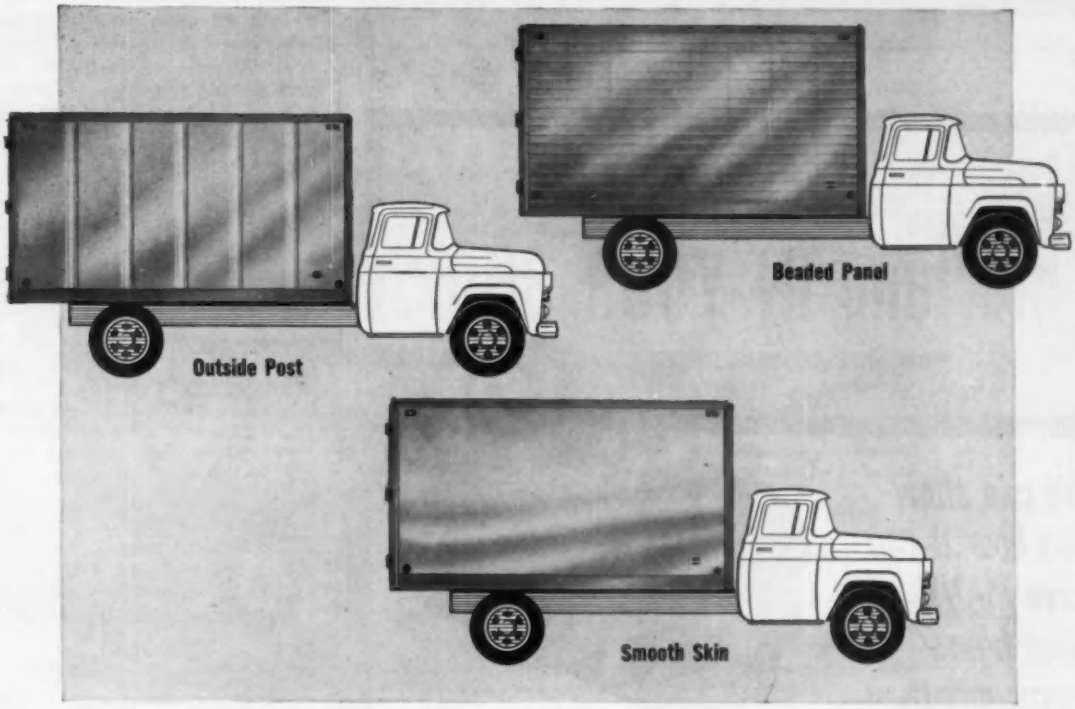
Everhot Mfg. Co., Maywood, Ill., is the exclusive distributor in the United States and foreign countries of the "Bos" Tire Demounter.

Claud DuBois is the new sales manager for Century and Marvel LP Gas carburetion equipment made by Marvel-Schebler Products Div., Borg-Warner Corp. DuBois, formerly a sales engineer in Century's southwest territory, will be located in the company's Decatur, Ill., home office.

talk about variety...

LYN makes 45 standard aluminum body kits!

Whether you haul apparel, heavy castings, beverages, or general cargo, LYN makes a standard body kit for you! And you can specify the body style you want in **Beaded Panel • Outside Post • Smooth Skin • all at one low price!**



5 width and height combinations
9 body lengths

Narrow Standard	91" wide x 76½" high
Narrow Extra High	91" wide x 84" high
Wide Standard	96" wide x 76½" high
Wide Extra High	96" wide x 84" high
Wide Extra Extra High	96" wide x 90" high

Body Lengths (outside measurements):
9', 12', 14', 15', 16', 18', 20', 22', 24'

Standard Body Kits include:

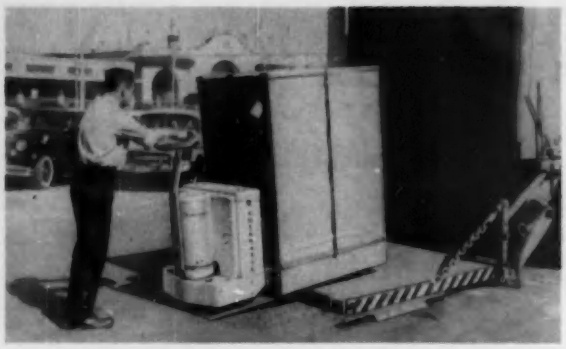
1 street side section, 1 curbside section, 1 front section, 1 rear frame section, each assembled; 1 roof section, assembled with roof caps riveted in place; clearance lights and reflectors to comply with ICC regulations. Just 5 sub-assemblies, 2 sides, 2 ends and roof delivered with all parts factory-drilled and squared; all jig work complete. Rear frame section comes fully assembled.

Plus engineered optional accessories designed to "custom-fit" LYN standard bodies to almost any cargo requirement. Full rear doors, single or double narrow rear doors, side doors, overhead doors, wheel house kits. What's more, if you have unusual requirements, LYN engineers can design and build body kits for special cargo or loading applications.

For more information on LYN Aluminum Truck Bodies, contact your local LYN dealer, or write:

LYNCOACH AND TRUCK CO., INC., ONEONTA, N.Y.

LYNCOACH & TRUCK CO., INC.
Oneonta, N. Y.



Fork Lift Goes Piggy-Back to Speed Paper Deliveries

ZELLERBACH PAPER CO., San Francisco, Cal., speeds paper delivery using a modified delivery truck together with a low-lift fork truck that goes with the truck.

Paper on skids, weighing 2000 to 4000 lb each, is now a one-man delivery operation. Here's the problem Zellerbach faced and how it was solved.

An existing low-bed chassis truck was inadequate. Not more than three or four skids of paper could be carried at one time due to the loss of floor space taken by the wheel housings. It was also difficult and hazardous to remove the tonnage merchandise from the truck bed where the customer had no lift equipment.

First off, a high-bed cab-over truck's load capacity was increased to approximately 24,000 lb by adding a trailing axle. Then a specially designed hydraulic lift gate measuring 6 x 8 ft was installed on the truck. To reduce its overall length, the gate was constructed to fold up against the back of the van. There it serves as a tail gate.

The heavy-duty cab-over does a remarkable job delivering through the crowded, steep, hilly thoroughfares of San Francisco. Very few of Zellerbach's customers, especially small printers and jobbers, have dock facilities, so the hydraulic ramp

(TURN TO PAGE 314, PLEASE)

Let us demonstrate this machine IN YOUR SHOP

We can show you how it can save MANY shop hours every month

Kwik-Way Super-Matic Valve Facing Machine

Let us prove, in your shop, on an actual job, that the Kwik-Way Super-Matic can save you many shop hours per month by assuring top-flight precision work, *eliminating "come backs"*. We'll come in and demonstrate without obligation. We'll show you the Kwik-Way Super-Matic Valve Facing Machine in action — with its micro-switch controls; dove-tailed handscraped ways with adjustable gibs; precision-built, lever operated 6-ball compound chuck; dual motor power.

Take us up on it. Ask us to prove in your shop how the Kwik-Way Super-Matic saves time, turns out better work. Mail this coupon today!

CEDAR RAPIDS ENGINEERING CO.
912—17th St., N.E.
Cedar Rapids, Iowa

Gentlemen:

☐ Please arrange a demonstration, without obligation, of the Kwik-Way Valve Seat Insert Tool.

☐ Send me further information and literature.

Name _____

Firm Name _____

Address _____

City _____ State _____

PRECISION • SPEED • LONG LIFE
Get all three in
Kwik-Way
Engine Reconditioning Equipment

"What's the trouble? One of those 'impossible-to-get-at repairs'?"

Big Tank Truck Fleet Simplifies Maintenance with Aeroquip Air Brake Hose and Reusable Fittings

Seneca Petroleum Company, Lemont, Illinois, Converts Quickly and Easily

L-R: Seneca's Tom Nelson, shop foreman; Robert Nelson, mechanic; Charles W. Rasmus, fleet superintendent, discussing new Aeroquip Air Brake Hose with Joe Waiting, salesman for Central Truck Parts Company

Aeroquip Air Brake Hose Fittings are designed for simple, foolproof assembly. Because they are reusable, they effect important savings.

Shop foreman Nelson likes the reusability feature of Aeroquip Air Brake Hose Fittings.

Charles W. Rasmus, Seneca Petroleum Company's fleet superintendent, says: "We've found that Aeroquip Air Brake Hose Lines with Reusable Fittings are easy to make up. We're equipping our whole fleet with them."

You reduce hose line costs greatly, the Aeroquip way. With Aeroquip Bulk Hose and Reusable Fittings, hose lines are quickly and easily made up, as they are needed—right in the field. A pocket knife and crescent wrench are the only tools needed. You reduce equipment downtime, eliminate big ready-made hose line inventories. You save because Aeroquip Reusable Fittings can be used over and over again.

Start today to simplify *your* hose line maintenance. Call your Aeroquip Distributor, listed under "Hose" in the yellow page phone book.

Aeroquip Fittings equip either Aeroquip 2550 Type A or 2570 Type B Hose. These hose types meet the requirements of S.A.E. 40R2 and of the Pennsylvania Bureau of Highway Safety.

Aeroquip

AEROQUIP CORPORATION, JACKSON, MICHIGAN

INDUSTRIAL DIVISION, VAN WERT, OHIO • WESTERN DIVISION, BURBANK, CALIFORNIA
AEROQUIP (CANADA) LTD., TORONTO 19, ONTARIO

AEROQUIP PRODUCTS ARE FULLY PROTECTED BY PATENTS IN U.S.A. AND ABROAD

3000 lb Electric Fork Lifts

The Akron, Ohio, Coca-Cola Bottling Co. uses these Hustler Pug 3000 lb capacity fork lifts to speed loading in tight areas. Made by The Heifred Corp., Willoughby, Ohio, the trucks are 60 in. long, 38 in. wide and have a turning radius of 52 in. Each handles an 8 hr shift without battery recharging. Outstanding feature is their ability to operate in tight areas where other standard fork lifts won't go.

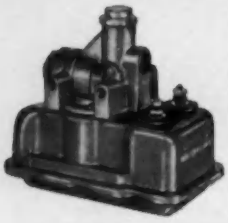
NEW STEWART-WARNER ELECTRIC FUEL PUMP

MEETS EXACT FUEL DEMANDS OF ALL GAS ENGINES... UNDER ALL CONDITIONS!

Model 240A

OUTPERFORMS ALL OTHERS!

Maximum delivery • Quicker starts • Less battery drain Smoother fuel flow • Serviceable • Prevents vapor lock • Less down time



220 Series Pump

Economical, long-lasting . . . assures trouble-free service! Delivers up to 20 gallons per hour. Runs independently of engine. 6-volt and 12-volt models.

Highest delivery rate! Up to 60 gallons of gasoline per hour, with oversize piston, coil, power spring. For cars, trucks, all gasoline engines.

Adjustable pressure! Pump is easily adjusted from 1 PSI up to 8 PSI to give exact shut-off pressure required by carburetor.

Automatic Pressure Regulator! No flooding. No starving. No surging. Desired pressure at carburetor is automatically maintained. Gives smooth, steady fuel supply. Improves mileage.

Built-in fuel filter! Extra-large reservoir. Oversize filter element.

Easy field service! Routine service or complete overhaul can be done by your own service personnel. 6-volt and 12-volt models.

SEE YOUR WHOLESALE SUPPLIER FOR DETAILS

Dept. UU-119, 1840 Diversey Parkway Chicago 14, Illinois

Symbol of SW Excellence

INSTRUMENT DIVISION STEWART-WARNER CORPORATION

Fork Lift Goes Piggy-Back

Continued from Page 312

facilitates unloading at street or curb level.

Piggy-backing a modified low-lift pallet truck was the next time-saving move. The feature that was added is a platform structure which comes down over the pallet forks.

This skid adapter is hinged to the back plate of the pallet forks. When not in use it folds back against the battery housing. Standing upright, it serves as a backstop for pallet loads which are highly tiered.

The Automatic Transporter, electric-powered low-lift, is used in the loading of the truck in a first-last sequence. The walkie is left under the last load placed on the truck.

Upon arrival at a stop, the gate is lowered to the bed level of the truck. A safety stop is placed at the end to prevent the truck from rolling off. The load is then brought onto the gate which is lowered.

The operator often stands on the magnesium ramp which is attached securely to the gate's end. When the gate reaches dock height or sidewalk level the load is taken away either over the ramp or directly onto the dock.

STENO MAY: "TELL ME, HONEY, WHAT IS YOUR WORST SIN?"

STENO FAY: "OH, I'D SAY MY VANITY. I SPEND SIMPLY HOURS AND HOURS BEFORE MY MIRROR ADMIRING MY BEAUTY."

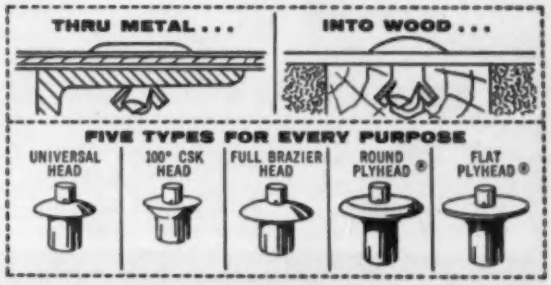
STENO MAY: "THAT ISN'T VANITY, DEAR. THAT'S IMAGINATION."

"I'll tell you why we insist on Drive Riveted linings in all our *new* equipment too..."

"It's because they require no servicing. You don't have to go over the interior periodically to tighten up the fasteners. Southco Drive Rivets stay tight.

"And big PLY-HEAD® drive rivets never crush the plywood and work loose.

"You can put them in fast, too. On new or repaired equipment we want Southco Drive Rivets."



Southco Division, South Chester Corp., 228 Industrial Highway, Lester, Pa.

SOUTHCO LION

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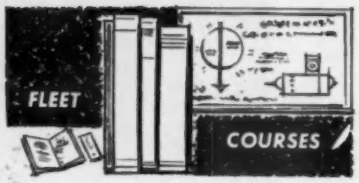
FASTENERS *IMPROVE TRUCK BODY, TRAILER AND BUS CONSTRUCTION*

PHONE YOUR LOCAL SOUTHCO DISTRIBUTOR

Open-Top Livestock Trailer

W. D. Dixon, Watford City, N. D., is using this 52-ft frameless livestock trailer to haul cattle to market. Trailer capacity is 40 head of 1000-lb cattle. On return trips he hauls 600-bale loads of hay. Trailer is made by American Body and Trailer, Oklahoma City, has aluminum diamond tread plate flooring. Nose section and rear gate are collapsible to lower wind resistance when running empty.



HERE IS the latest calendar of fleet training courses. Information is available from the sponsoring college. Complete addresses are listed in the Fleet Course Directory on page 281 of this issue.

Driver Trainer

Ontario Safety League — Apr. 25-29, 1960.

Province of Quebec Safety League (Montreal)—May 2-6.

Pennsylvania State University — Sept. 26-30.

Fleet Maintenance

Univ. of California (Los Angeles) —Mar. 9-11 (conference).

Univ. of California (Berkeley) — Mar. 14-16 (conference).

Univ. of Washington—Mar. 21-23 (conference).

Ontario Safety League (Toronto) —Mar. 28-Apr. 1.

Pennsylvania State University — Apr. 25-29.

Northeastern University—Oct. 10-14.

Fleet Supervisor

Province of Quebec Safety League (Montreal)—Jan. 4-8, 1960.

Univ. of Utah—Feb.

Univ. of California (Los Angeles) —Mar. 7-8 (conference).

Univ of California (Berkeley) — Mar. 17-18 (conference).

Univ. of Maryland—Apr. 4-8.

Univ. of Washington—Apr. 11-15.

Northeastern University — May 9-13.

(TURN TO PAGE 318, PLEASE)

Sundstrand truck refrigeration drives cut operating costs at Armour and Company

Part of Armour and Company refrigerated truck fleet operated out of Houston, Texas, and equipped with Sundstrand truck refrigeration drives. Electric plug-in cords are provided for standby operation at loading dock.

G. W. Lewis, district automotive maintenance supervisor for Armour and Company, reports changing to Sundstrand Hydraulic drives for truck refrigeration units has increased reliability and reduced maintenance and operating costs on delivery trucks in the Houston, Texas, area.

With each truck delivering between $15,000 and $20,000 worth of perishables daily, Mr. Lewis points out, "You simply can't compromise with quality of refrigeration equipment used." Inside temperature of the refrigerated compartment must be maintained at a constant safe level of 35° F despite the fact that doors are opened 35 to 40 times a day while making deliveries and summer temperatures may go as high as 110° F.

Power take-off mountings are used in Houston on all Sundstrand-equipped trucks to drive the pump which is the heart of the constant speed drive unit. Although pump rotation is proportional to engine speed, the pump measures its own output and delivers a constant flow of oil to the fluid motor to drive the refrigeration compressor at constant speed. The pump rotates continuously but a thermostat puts the swash plate into neutral so no oil is pumped when refrigerated compartment is at the right temperature.

In three years of operation there has not been a single breakdown or serious delay in deliveries due to the malfunctioning of a unit, maintenance records show. Similar results have been achieved in many other installations. For more details about the application of Sundstrand truck refrigeration drives in either power take-off or over-engine mountings, write for Bulletin 5002-4.

Rapid visual inspection of power take-off-mounted Sundstrand pump is made by G. W. Lewis, Armour and Company district automotive maintenance supervisor.

SUNDSTRAND

SUNDSTRAND HYDRAULICS

DIVISION OF SUNDSTRAND CORPORATION

2210 Harrison Ave., Rockford, Ill.—Eastern Sales Office: 89 Summit Ave., Summit, N. J.

AIRCRAFT AND INDUSTRIAL HYDRAULIC TRANSMISSIONS, PUMPS, MOTORS AND VALVES • OIL BURNER PUMPS • AIR SANDERS • LATHES, MILLING, BROACHING AND SPECIAL MACHINES BROACHING TOOLS • MAGNETIC CHUCKS • PACKAGING MACHINERY

GUNITE

BRAKE DRUMS

Save . . . mile after mile . . . with rugged, dependable Gunite Brake Drums. Special alloy metal . . . plus "performance-proved" rib design . . . outwears, outperforms ordinary drums. Brakes stay cooler, more efficient, safer . . . brake and drum maintenance costs are substantially less! Over 800 sizes and types of Gunite heavy duty brake drums are available!

Don't wait . . . call the Gunite distributor in your area TODAY!

THE FULL LINE MANUFACTURER OF
HEAVY DUTY BRAKE DRUMS AND WHEELS

GUNITE

GUNITE FOUNDRIES CORPORATION
Rockford • Illinois
Established 1854

Fleet Courses

Continued from Page 316

Pennsylvania State University — —Sept. 12-16.

Ontario Safety League—Sept. 19-23.

Terminal Operation

Univ. of Utah—Feb. 1960.

Pennsylvania State University — Mar. 21-25.

Top Management

Pennsylvania State University — May 2-3 (conference).

Advanced Techniques

Northeastern University — Nov. 9-10 (conference).

Pennsylvania State University — Apr. 7-8, 1960 (conference).

Transportation

The transportation courses listed below are offered by the Institute of Transportation and Traffic Management, Northeastern University. Each course is held in the evening. Starting and finishing dates are shown.

Freight Claims for Loss and Damage—Feb. 4-May 26.

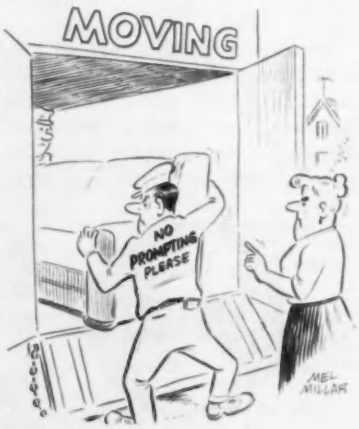
Current Transportation Problems—Feb. 2-May 24.

Selling Transportation Services — Feb. 4-May 26.

Motor Carrier Operations—Feb. 2-May 24.

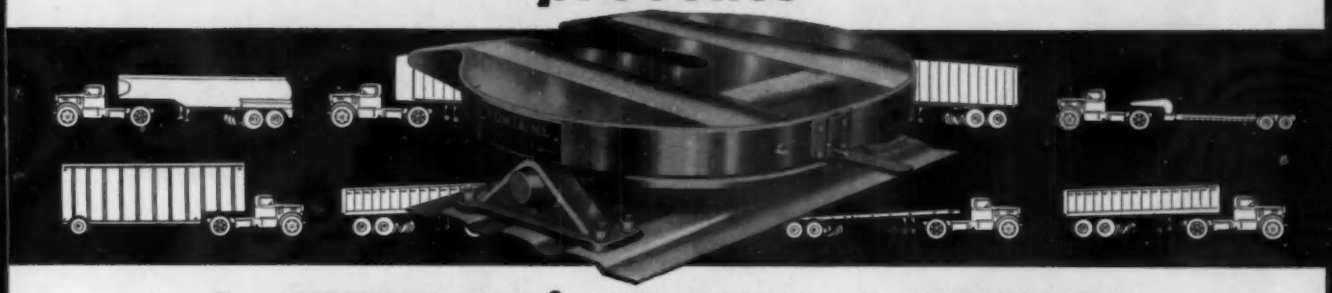
Transportation Practices—Feb. 2-May 24.

Traffic Management — Feb. 2-May 24.

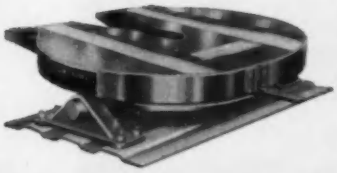


Fontaine

presents



A NO-SLACK® FIFTH WHEEL FOR EVERY HAULING PURPOSE



AN INDUSTRY STANDARD . . . FONTAINE'S

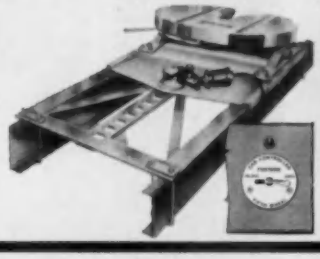
MOUNTING PLATE

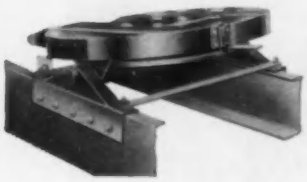
Large, deep-ribbed plates cut strain on tractor frames to a minimum. 36" diameter wheel is fabricated for strength and light weight. 8" high; 350 lbs.

FOR CAB-OPERATED CONVENIENCE . . . FONTAINE'S AIR-CONTROLLED

LO-SLIDE

Adjusts easily from cab. Oblong pin lasts longer, positions better. Three U-bolts each side. 8½", 9½", 10½" heights, 21" adjustment in 3" increments, 530 lbs. Also available with manual control.





FOR A STRONG, LIGHTWEIGHT INSTALLATION . . . FONTAINE'S

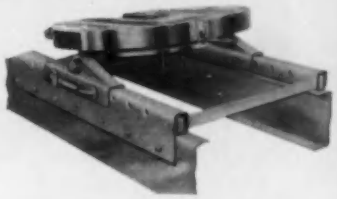
ANGLE MOUNT

Mounting angles bolt directly to truck frame. Assembly forms an additional cross-member, gives extra strength. 7⅛", 8⅛", 10⅛" heights. 20", 36", 42" bracket lengths; 315 lbs.

FOR FASTER CHANGES, BETTER WEIGHT DISTRIBUTION . . . FONTAINE'S

SLIDING WHEEL

A competitively priced, lightweight wheel. Weighs 430 lbs. installed. Standard adjustment of 20". Additional slide available up to 6 ft. Locks with 2 steel pins on each side.



FOR TERMINAL INTERCHANGE AND SHORT-HAUL . . . FONTAINE'S

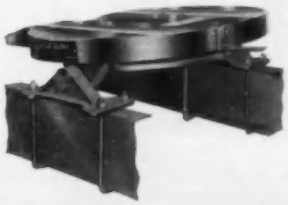
JOCKEY MOUNT

Simple, one-man-operated hydraulic lifting jacks eliminate need for manual cranking. Another dependable, economical, tested Fontaine product.

FOR TOUGH, OFF-HIGHWAY HAULING . . . FONTAINE'S

UNIVERSAL WHEEL

Side-rocking action reduces stress and strain on trailer and tractor. Shifting of loads and sudden jolts are taken by mount. Can be tailor made for any installation.



FOR HEAVY-DUTY STAMINA, EASY MOUNTING . . . FONTAINE'S

FRAME MOUNT

Two pairs of U-bolts go around frame members and attach through foot brackets. Available with angle-tie using U-bolts and angle. 7¼", 8¼", 10¼" heights, 15½" bracket, 300 lbs.

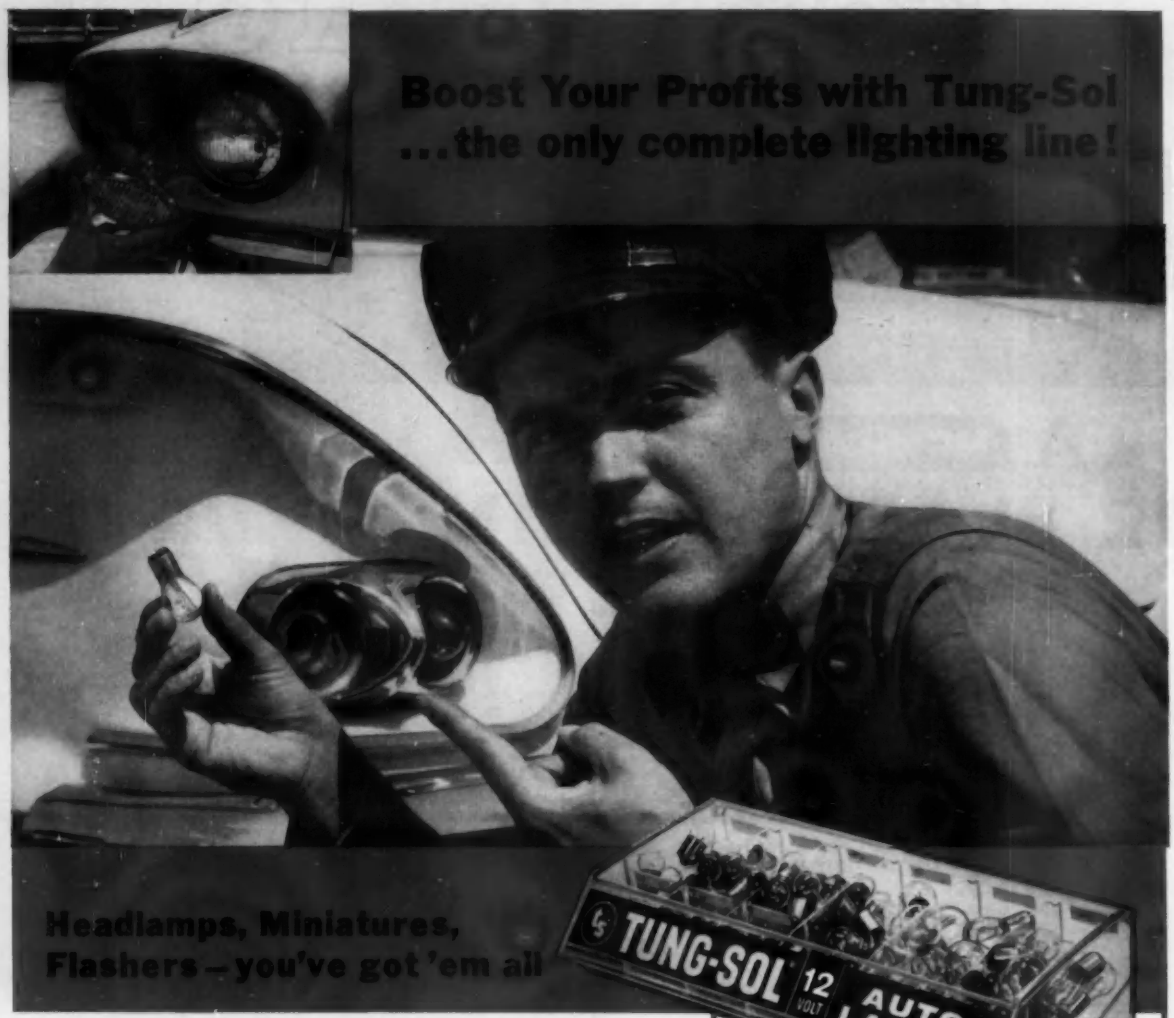
WRITE FOR FONTAINE'S DETAILED

CATALOG...IT'S FREE

Fontaine No-Slack fifth wheels are available to fit any type of truck. They carry a two year factory warranty from date of installation. Write today for complete details.

Fontaine Truck Equipment Co., Inc.

1232 North 37th Place — Birmingham 1, Alabama



with TUNG-SOL

. . . all the ingredients for a profitable, one-stop lighting service —the part of the TBA picture that's growing fastest of all!

The number of headlamps on newer cars has *doubled* and there's still plenty of standard 7" headlamp business around as well. In both cases Tung-Sol Vision-Aid headlamps provide the kind of performance your customers can bank on in all kinds of traffic and weather.

The number of miniatures has mushroomed, too . . . up to 48 on some of the fancier models. There's a sturdy Tung-Sol miniature for every socket. Miniatures move even faster when they're displayed in the handy, plastic Tung-Sol merchandisers.

When it comes to servicing direction signals you're in good stead, because only Tung-Sol produces a full line for both passenger car and fleet use.

Get yourself squarely in the lighting service profit picture. Tell your supplier you want the line that's got 'em all . . . Tung-Sol! Automotive Products Division, Tung-Sol Electric Inc., Newark 4, N. J.

Ask your supplier about new Tung-Sol Auto Lighting Rack. Stocks everything you need for one-stop lighting service. (24" x 32" x 8")

TUNG-SOL®

HEADLAMPS • MINIATURE LAMPS • FLASHERS

WELDING?

Knowing your needs in advance is his business...

your nearby LINDE distributor

He's an independent local businessman.

He's a welding specialist who knows what you want and keeps stocks ready for immediate delivery.

He carries a complete line of welding and cutting equipment, industrial gases, welding rods, supplies, and accessories.

He can recommend products and methods best suited to your needs.

His representatives visit hundreds of shops and help solve all sorts of operating problems—valuable experience that can be useful to you.

Every dot on this map represents an authorized LINDE distributor. There's one near you. Get to know him better. A telephone call is all it takes, and you'll find him listed in your local directory. Linde Company, Division of Union Carbide Corporation, 30 East 42nd Street, New York 17, N. Y. *In Canada:* Linde Company, Division of Union Carbide Canada Limited, Toronto.

Linde UNION CARBIDE

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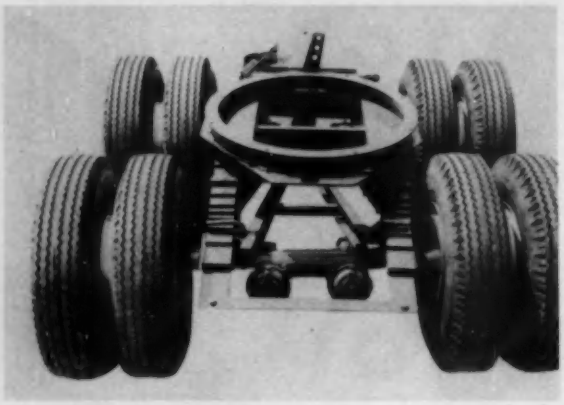
NEW PRODUCTS

DESCRIBING RECENTLY ANNOUNCED PRODUCTS AND EQUIPMENT OF INTEREST TO MEN CONCERNED WITH TRUCK, BUS AND CONSTRUCTION FLEET MANAGEMENT

A NEW SERVICE FOR READERS

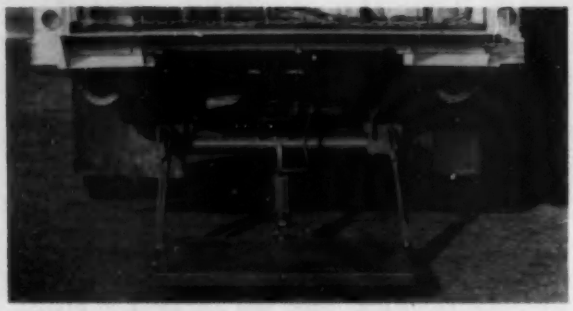
For quick information about new products you're interested in, phone or write the person named directly below the description



Automatic Steering Trailer Suspension

replaces conventional suspensions on trailers. Named the Steeromatic, the unit has a ball ring mount, frame, two leaf springs embedded in rubber cushions, a steering tongue, axles and wheels. It steers automatically, is said to track perfectly and to make sharp turns into alleys and loading docks easier and safer. The Steeromatic is also reported to increase tire life, give up to 15 per cent fuel savings, and eliminate trailer tire scuffing.

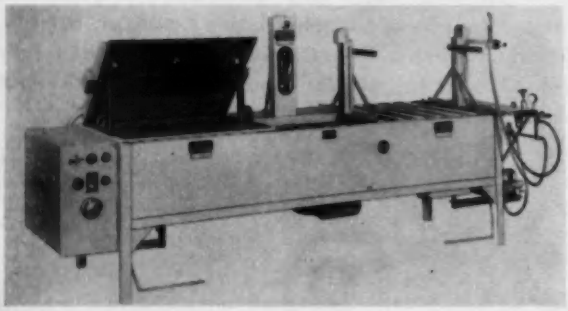
Contact William Brodine, Sales Engineer, Pollock Industries, Inc., South Keim St., Pottstown, Pa. Phone: FAculty 3-5500.



Hideaway Hydraulic Tailgate

permits loading at docks where conventional elevating gates often are in the way. This gate folds out of the way, yet is ready for use when needed for making pickups or deliveries away from dock facilities. Called the Watson "Hide-A-Gate," it has a capacity of 1200 lb., is electric hydraulic or PTO hydraulic operated. It fits 1½ ton and larger trucks.

Contact Mark Anthony, Adv. Mgr., H. S. Watson Co., 1316 67th St., Emeryville 8, Cal. Phone: OL 2-6106.



Radiator Repair Equipment

is a one-piece unit for cleaning, testing and repairing automotive radiators. The Inland Super VFT-10-1 combines a Flo-Test machine, Hot Cleaning Vat, and Test and Repair Bench into one 11½ x 3½ ft unit. Special feature is an automatic time control which turns the heat on or off at any pre-set time so the solution is hot and ready when the operator needs it.

Contact James V. Grasso, Mgr., Equipment Div., the Inland Mfg. Co., 1108 Jackson St., Omaha 2, Nebr. Phone: HA 1108.

Bus Air Conditioner

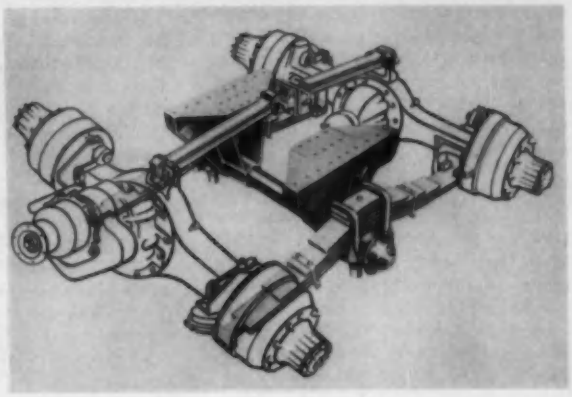
is the new Frigibus 75 made by the Frigikar Corp. Designed for large buses, the air conditioner has a capacity of 72,000 Btu with an air volume of 1800 cfm. System is powered by a 24 hp air-cooled gasoline engine. There are two 10 cu in. aluminum compressors. The unit is installed on the bus roof (as shown) with ducting to carry the air to the forward part of the bus.

Contact Don Gilmore, Jr., Frigikar Corp., 1602 Cochran, Dallas, Tex. Phone: RIverside 1-1661.

Lightweight Tandem Truck Suspension

can increase truck or tractor payload up to 300 lb. The new suspension is offered in two versions: (1) an all-steel unit which gives weight savings up to 230 lb. and (2) a unit with aluminum frame support brackets and torque rods which cuts weight up to 310 lb. Rockwell-Standard, the manufacturer, says the new design requires minimum maintenance and allows easy removal of either axle. The "cradle ride" design is used in the new suspension.

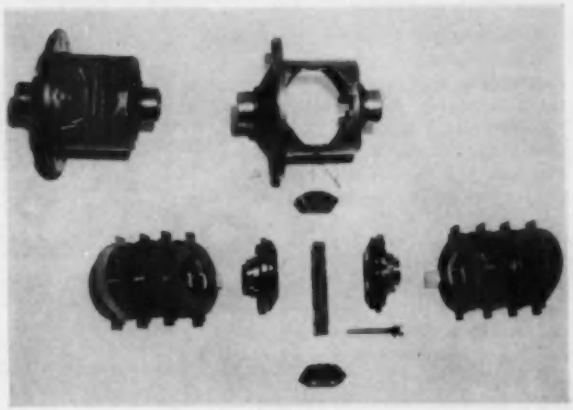
Contact Walter Burkhardt, Adv. Mgr., Rockwell- Standard Corp., 100 Clark Ave., Detroit 32, Mich. Phone: TA 6-6000.



Controlled Slip Differential

is for both passenger cars and trucks. Made by Eaton, it gives better traction on slippery roads or in mud. The unit increases torque to the wheel with the best traction. Photo here shows a conventional differential in the upper left, and a display of the parts in the Eaton unit. Main difference is in the discs which flank the gears in the photograph. These discs come together when power is applied and reduce the spinning action of the slipping wheel while at the same time applying more torque to the wheel on firm ground.

Contact D. E. Cardoze, Sales Engineer, the Pump Div., Eaton Mfg. Co., 9771 French Rd., Detroit 13, Mich. Phone: WA 1-5820.



Spark Plug Analyzer

shows the condition of spark plugs while the engine is running. There's no need to remove plugs to check them. The analyzer, called the ACilloscope, is made by the AC Spark Plug Div. of General Motors. It operates from the vehicle's battery and has just four connections—at the two battery terminals, the distributor center tower and any spark plug lead. Pattern on the screen shows if plugs are OK, lead fouled, oil fouled, or if there's gap erosion. Price is $44.95 from AC spark plug distributors.

Contact Mr. W. J. Oldfield, Adv. & Promotion Director, AC Spark Plug Div., General Motors Corp., 1300 N. Dort Hwy., Flint 2, Mich.

(TURN TO NEXT PAGE, PLEASE)

(See also Fleetmen's Library on p. 64)

Welding equipment is described in a new manual from Smith Welding Corp. It's arranged in six sections, shows each product and gives charts and technical data. One section is devoted to flow capacity curves of gas pressure regulators. For a free copy, write Smith Welding Equipment Corp., 2633 Fourth St., S.E., Minneapolis 14, Minn.

Dotco's "Series 2" pneumatic tools with more powerful rotary vane motors are described in a new bulletin from the Doeden Tool Corp. The new series is for heavy-duty metal and plastic grinding and finishing. Contact Gerald D. Doeden, Marketing Mgr., Doeden Tool Corp., Sherwood, Ohio. Phone: TYler 9-4375.

Pax-It refuse compactor units in 16 and 20-yd capacities are shown in a recently announced brochure. Descriptive information, specifications and comparison figures are included. The brochure is helpful in choosing equipment to match your refuse hauling requirements. Contact Charles E. Grant, Gen. Mgr., Pax-It Equipment Co. Inc., 814 Second Ave. Bldg., Seattle 4, Wash. Phone: MA 2-4226.

Solderless wiring terminals are described in a new brochure. It shows different kinds of terminals for wiring applications ranging from the "ring" and standard tongue designs through multiple-wire connectors and quick-disconnects. Insulated and vibration-proof styles are included. Contact Edward M. Muldoon, Pres., ETC Incorporated, 990 E. 67th St., Cleveland 3, Ohio. Phone: EN 1-3144.

Automotive electrical wire and cable products from the Del City Wire Co. are shown in a new 24-page catalog. Ask for Catalog No. 3. Contact Harold R. Swartzendruber, Pres., Del City Wire Co. Inc., Box 2464, Oklahoma City, Okla. CEntral 6-8798.

Snowplow brochure from FWD shows the company's line of snowplow units ranging from 26,000 to 55,000 GVW for V-type, one-way blades and rotaries. Title of the brochure is "40 New Special Snowplow Models." Write the FWD Corp., Clintonville, Wis.

Portable blowers and vacuum cleaners from the Clements Mfg. Co. are described in new free literature. Shown are a full line of blower-suction cleaners, hot or cold air blowers, blowtorches, furnace blowers and industrial vacuum cleaners. Contact Mr. W. J. Clements, Pres., Clements Mfg. Co., 6650 Narragansett Ave., Chicago 38, Ill. Phone: GLobe 8-0120.

LeTourneau jib cranes in 3 to 15-ton capacities are shown in a new illustrated folder. Cranes have 360 deg swing, can be supplied with manual or power rotation. Write R. G. LeTourneau, Inc., 2399 S. MacArthur, Longview, Tex.

The American 40-ton crawler crane-excavator is described in a 24-pg illustrated catalog from American Hoist & Derrick Co. Shown is the 500 Series Crawler with 40-ton capacity. Free copies are available from local distributors or by writing the manufacturer direct at St. Paul 7, Minn.

Truck wheel equipment catalog from Motor Wheel Corp. shows the Motor Wheel hubs, drums and wheels for trucks, trailers and buses. The 44-page catalog is illustrated and has cross references showing conversion tables. Ask for Catalog No. MW-159A from local Motor Wheel Distributors or by contacting the Motor Wheel Corp., Lansing 3, Mich. Phone: IV 2-1321.

General Electric's 1960 automotive lamp chart is now available. Chart shows all 1960 automobile light numbers, plus most truck light requirements. The chart is available from any supplier of GE miniature lamps.

Spark plug catalog has interesting tips on plug installation and servicing as well as information on Hastings "Fire-Power" and "Aero-type" spark plugs. Applications include cars, trucks, tractors, construction equipment, and small engines. Ask for Catalog No. SP-24. Contact Marshall H. Cook, Adv. Mgr., Hastings Mfg Co., Hanover St., Hastings, Mich. Phone: WIndsor 5-2492.

Barrett brake service equipment are shown in a new pocket size condensed catalog No. MB59. For your free copy, contact Ray L. Stolemeyer, Asst. Sales Mgr., Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo. Phone: CE 1-1763.

New Products

Continued from Page 323

Tire Demounter

handles all types of rims and all sizes of truck tires from 15 to 24 in. Called the Bos Tire Demounter, it has a hydraulic unit built into one handle which forces the tire off the rim.

There's no hammering or pounding. Three or four applications around the wheel rim does the job. Unit weighs 26 lb, can be used in the shop or in the field.

Contact Mr. G. R. Brosseit, Gen. Mgr., Everhot Mfg. Co., 57 S. 19th Ave., Maywood, Ill. Phone: FIllmore 3-5322.

Body Sealer

is the Gaco N-700A for truck and trailer bodies. It seals seams, roof corners, riveted areas and floors. The new sealer can be used during body assembly to prevent leaks caused later by body twisting and wracking. It is also offered in kit form for stopping water and air leaks which already exist.

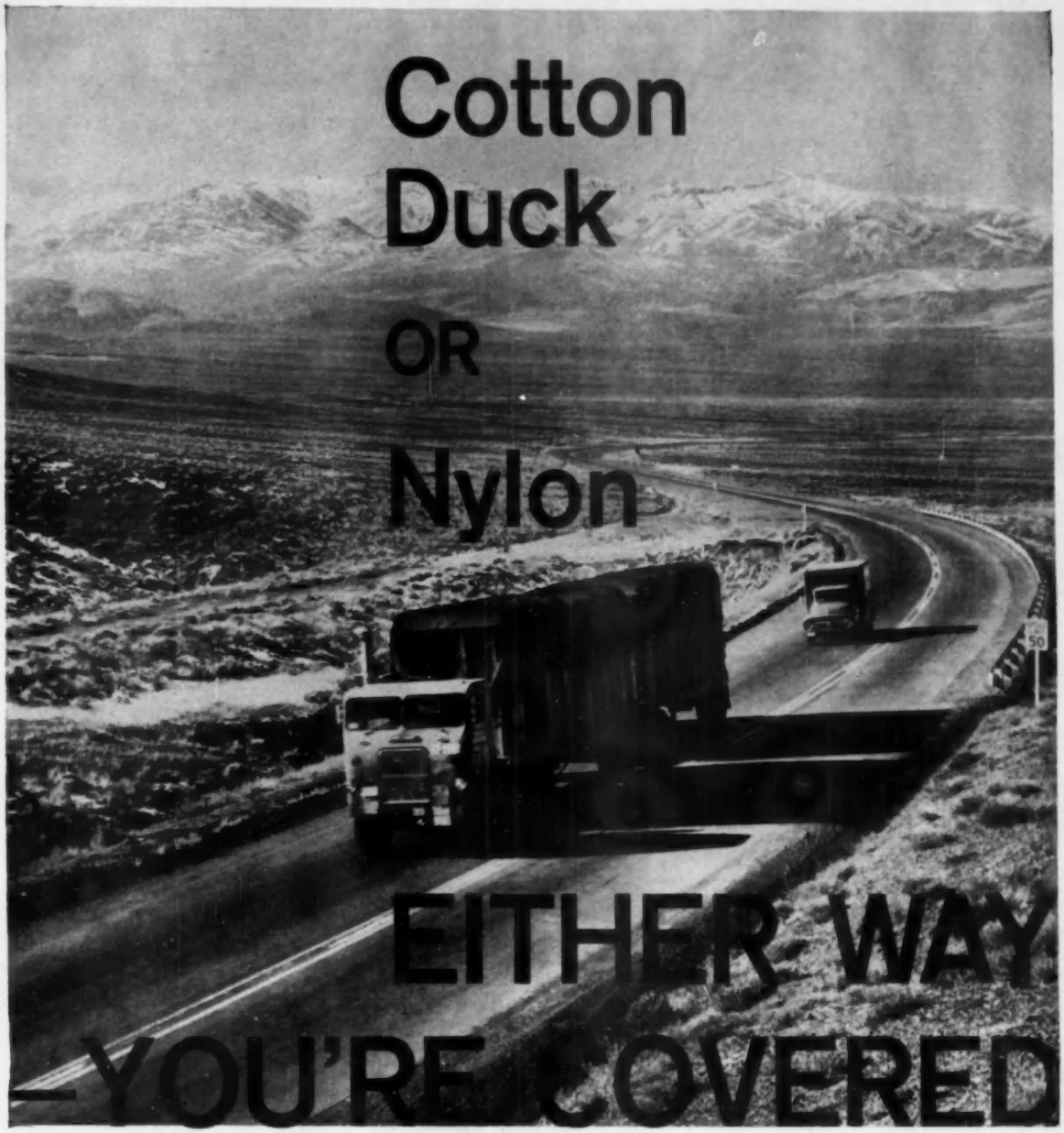
Contact George P. Kern, Vice Pres. Sales, Gates Engineering Co., 100 S. West St., Wilmington 99, Del. Phone: OLympia 6-9951.

Door Lock

is particularly suitable for reefer and dry freight truck body doors. Called the Binkley "Tite Grip" door lock, it keeps doors securely closed and gives sufficient leverage to break a frost seal when opening. The lock is adaptable to single and double doors.

Contact Frank Bornman, Gen. Mgr., Binkley Mfg. Co., Warrenton, Mo.

(TURN TO PAGE 326, PLEASE)



Wellington Sears protective fabrics are the choice of leading fabricators throughout the country. Reason: The long-standing Wellington Sears reputation for quality, built by filling the fabric needs of industry.

If it's cotton duck you want, Wellington Sears covers the field with a heavy duty line for every application, distributed by leading jobbers. For tarps made of coated materials, specify Welkote nylon, our base fabric specifically engineered for vinyl or neoprene coatings and used by all quality coaters.

From prairie schooners to tractor trailers, Wellington Sears has had over a century of experience in providing fabrics for cargo protection. Write us for the names of suppliers for all your tarpaulin fabric needs.

WELLINGTON SEARS

FIRST in Fabrics for Industry

WELLINGTON SEARS COMPANY, 111 WEST 40TH STREET, NEW YORK 18, N. Y.

Akron • Atlanta • Boston • Chicago • Dallas • Detroit • Los Angeles • Philadelphia • San Francisco

WEST POINT TEXTILES

New Products

Continued from Page 324

Portable Sand Blaster

is named the Sandy Jet, has a pistol-grip type blast gun. It uses all types of abrasives, comes with three nozzle sizes. The abrasive is contained in a small area using a cardboard box.

A special room or work area is not required. The maker says the Sandy Jet is "The world's fastest way to clean those hard-to-get-at places."

Write ALC Co., RD 5, Box 40, Medina, Ohio.

Electric Fuel Pump

is the new Series "1000" Autopulse. It has nearly doubled the capacity of earlier models—gives up to 42 gph free flow. New chamber and bellows design gives longer life, permits strainer cleaning without disconnecting fuel lines. Fuel pressure is fully adjustable.

Contact Victor Guernsey, Walbro Corp., 6242 Garfield St., Cass City, Mich. Phone: Cass City 378.

Fuel Additives

come in two types—for gasoline and diesel engines. "Power-Pal" is a concentrated diesel fuel conditioner which is reported to give 5 per cent fuel savings, quicker starting, more power and mileage. "Power-Pal Plus 10" is a gasoline engine conditioner which improves performance and efficiency. Plus 10 is said to give up to 8 per cent more fuel mileage, neutralizes fuel acids and disperses water and carbon. It also prevents fuel line freezing.

Contact the Motive Specialties Div., Nutmeg Chemical Co., 130 Haven St., New Haven 13, Conn. Phone: SPruce 7-7691.

Oil Purifier

is a battery powered centrifugal type which cleans engine or hydraulic system oil faster than dirt can accumulate. It also removes water from oil,

eliminates acid formation. Unit is easily installed, fits all types and sizes of engines.

Contact the A. M. Lavin Machine & Mfg Works, Hatboro, Pa. Phone: OSborne 5-0405.

Door Hinge

is a stamped steel hinge with hardened steel washers which act as truss bearings to carry the door load. Available with the hinge are post plate shims which make it easy to raise the hinge post away from the body mounting surface ⅛ in.

Contact Mr. A. Pelcin, Adv. Mgr., Eberhard Mfg. Co., 2734 Tennyson Rd., Cleveland 4, Ohio.

Spark Plug

is the new Hastings "Fire-Power" type with aluminum oxide insulators. The plugs are said to operate over a wider heat range, perform equally well at high or low engine speeds and are less subject to fouling.

Contact Marshall H. Cook, Adv. Mgr., Hastings Mfg. Co., Hanover St., Hastings, Mich. Phone: WIndsor 5-2492.

Insulated Milk Body

Here's the Boyertown Model IDS8-L insulated milk delivery body. It's especially made for insulated or refrigerated delivery of dairy products. Standard size milk case capacity is 90, arranged five long, five wide and four high. Body fits all standard makes of one-ton and 1½-ton chassis with flat back cowl assembly. Insulation is an integrated assembly using an expanded plastic foam type insulation bonded into a sealed unit.

Reefer Insulation Bond

is a new thermosetting resin for bonding fiber glass insulation used in refrigerated truck and trailer bodies. The insulation bonded with the new resin is made by Johns-Manville and is called "Transulite." It's moisture

resistant, lightweight, vibration resistant and will not burn or rot. It holds insulation in position when installed between truck body posts (as pictured here).

Contact Mr. W. L. Whitcomb, Fiber Glass Adv. Mgr., Johns-Manville Sales Corp., 22 E. 40th St., New York 16, N. Y. LExington 2-7600.

Timing Light

is the new Model No. MT-215 from Snap-on Tools. Features include more concentrated light both on 6 and 12 volt systems. Plastic case is breakproof, can't be harmed by gasoline or solvents. Long service life, dependability and performance is claimed by the maker.

Write Snap-on Tool Corp., 8026 28th Ave., Kenosha, Wis.

Fuel Oil Nozzle

is reported to increase fuel delivery up to 10 per cent. The Buckeye Model No. 126 has a flow rate of 125 gpm, is offered with either 1¼ or 1½ in. IPT inlet. Features include easy opening and closing with balance design to prevent hammer and chatter. It's also available with a swivel for easy attaching.

Contact William J. Duggan, Merchandising Mgr., Diamond Gardner Corp., Middletown, Ohio.

(TURN TO PAGE 328, PLEASE)

FAST DELIVERY!

TRUCK OWNERS find there are five big advantages in going to Fruehauf for steel or aluminum van bodies:

Fast mounting - immediate delivery
Low initial cost - and low upkeep
Countless optional features - at low cost
Complete replacement assemblies - save expense
High quality - rugged construction

Fruehauf has been the first name in truck bodies from coast to coast for nearly a decade—because no one else can offer so much for so little. Rugged, low-priced steel Fruehauf "Cube□King" Bodies and handsome, economical aluminum Fruehauf "Cargo☆Star" units are hard at work in hundreds of well-known fleets, because Fruehauf sells more quality and optional features per dollar and provides more follow-up service, such as fast mounting and painting, lettering, washing, and repair facilities, and immediately available replacement assemblies at any time.

When you need either a husky steel or economical aluminum body of any length, with any door combination, call Fruehauf first—and avoid delay in delivery, enjoy immediate hauling profits!

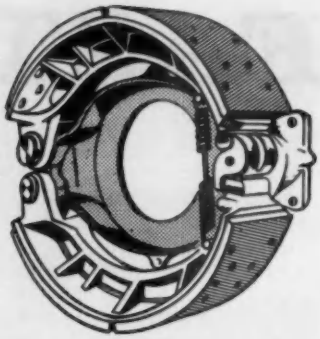
FRUEHAUF TRUCK BODIES

FRUEHAUF TRAILER COMPANY
Truck Body Division
10952 Harper Avenue • Detroit 32, Michigan
SEND FULL FACTS, WITHOUT OBLIGATION, ON UNITS CHECKED:
Cube□King **Cargo☆Star**

NAME _____
COMPANY _____
ADDRESS _____
CITY _____ STATE _____

A REPUTATION FOR

DEPENDABILITY



— EARNED BY EXPERIENCE

"Save the tough jobs for Scandinavia" is more than a claim. Scandinavia ZT-Molded Combination Sets have earned their reputation in the heavy-duty field. The die-pressed ZT segments have a polishing effect on brake drums which is reflected in a definite reduction of heat-checking and fading. The specially compounded molded segments, combined with ZT, result in dependable braking and long life — even in extra-heavy-duty service.

BRAKE BLOCKS **SCANDINAVIA** BRAKE LININGS

DIVISION OF SCANDINAVIA BELTING COMPANY
112 Keswick Avenue (P.O. Box 949), Charlotte 1, North Carolina
Warehouses: Cambridge, Mass., Indianapolis, Indiana, Cleveland, Ohio and Newark, N. J.

New Products

Continued from Page 326

Hydraulic Vise

has a 5-ton capacity, comes with a demountable power unit and attachments to convert it to a pipe or round stock

vise. It's foot operated, leaves the operator's hands free.

Contact Thurston Warn, Gen. Mgr., Warn Mfg. Co., P. O. Box 6064, Riverton Station, Seattle 88, Wash. Phone: CHerry 4-3400.

Oil Filter Element

is a full-low type called the Winslow CP (Controlled Pressure) Filter. It's made in sizes for all gasoline and diesel engines. Two filtering materials self-adjust pressure to give full-flow of filtered oil without causing excessive back pressures.

Contact William G. Nostrand, Vice Pres., Winslow Engineering & Mfg. Co., 4069 Hollis St., Oakland, Cal. Phone: OLympic 2-0288.

Metric Socket Wrenches

are for work on most foreign cars and trucks which are built with metric measurements. The new sockets from the Proto Tool Co. has ⅜ in. drive and range in size from 8 mm to 19 mm. They're packaged at Set No. 5200 M.

Contact Jay Womach, Adv. Mgr., Proto Tool Co., 2209 Sante Fe Ave., Los Angeles 54, Cal.

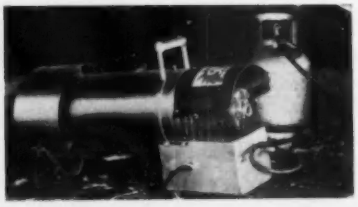
Tarp Strap

is offered in lengths from 9 to 60 in., is used to secure tarps on trucks and trailers, An "S" hook on each end gives easy and trouble free fastening.

Contact H. C. Heintzelman, Industrial Rubber Products Div., Cooper Tire & Rubber Co., Findlay, Ohio.

Portable Space Heater

burns LP Gas, is said to be well suited for preheating truck engines, thawing out frozen materials and equipment, and warming unheated main-



tenance shops. The stow heater Model No. LPG200 produces 200,000 Btu's of heat. A built-in circulating fan moves 2000 cu ft of air a minute. It weighs 45 lb, is easily portable.

Contact Mr. C. Hotchkiss, Jr., Vice-Pres., Stow Mfg. Co., 38 Shear St., Binghamton, N. Y. Phone: RAymond 3-6411.

Starter Motor

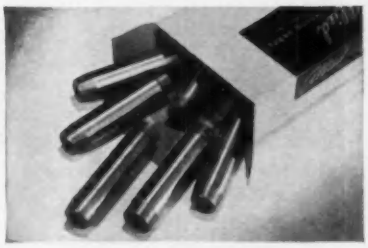
combines the inertial drive appearance with the performance advantages of the "piggy-back" positive shift starter. Made by Auto-Lite, the shifting solenoid is located in the pinion housing and directly operates the overrunning clutch without need for linkage. Big advantage: A posi-

(TURN TO PAGE 330, PLEASE)

All valves are not alike

● Take Allied "bi-metal" valves for instance. In most engines, only a valve made of *two* metals could withstand so well the heat and temperature a head must take . . . and the terrific pounding the head must endure. For these applications, no *one* steel can do the job. Add the fact that Allied also gives full coverage in Stellite-faced valves, sodium-filled valves and both types of roto mechanisms wherever required, and you'll see why Allied can serve you so well. Better see your N·A·P·A Jobber now about Allied.

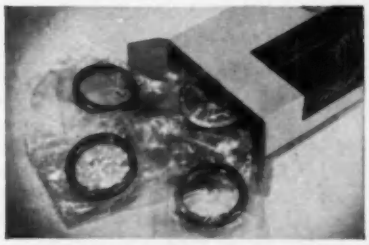
RELY ON ALLIED FOR COMPLETE VALVE TRAIN SERVICE



VALVE GUIDES

VALVE SPRINGS

VALVE LOCKS



VALVE SEAT INSERTS

Allied

ENGINE & CHASSIS PARTS

"the complete coverage line"

N·A·P·A Assurance of Quality

ALLIED AUTOMOTIVE PARTS COMPANY
INDIANAPOLIS 7, IND.

New Products

Continued from Page 328

tive shift starter motor with built-in solenoid.

Contact Glenn Campbell, The Electric Auto-Lite Co., Toledo 1, Ohio. Phone: CHerry 3-3131.

Cam Dwell Indicator

simplifies the job of setting distributor points. Made by AC Spark Plug Div., the indicator fits on the distributor, does away with the feeler gage.

Contact Mr. W. J. Oldfield, Adv. & Promotion Director, AC Spark Plug Div. General Motors Corp., 1300 N. Dort Hwy., Flint 2, Mich.

Tarpaulin Support

is an adjustable steel frame which holds the tarp on open top trucks. Called the Speed Rack, it has rails bolted along the top end of the truck sides. Tubular bows with the tarp laced to them, run on the rails. A

crank at the rear opens or closes the bows.

Contact Mr. I. B. Gruber, Pres., American Forge & Mfg. Co., P. O. Box 20, McKees Rocks, Pa. Phone: SPaulding 1-4514.

Truck Signs

are made of brilliant, color-fast, anodized aluminum. They're custom made in all sizes and in one or more colors. Signs are available with various types of adhesives for fast installation.

Contact Mr. R. I. Saks, Director of Sales, Allied Decals, 8082 Hough Ave., Cleveland, Ohio. Phone: SW 1-6860.

Log and Manifest Box

keeps papers, freight bills and other paper work with the trailer where they belong. Box also can be used

as a first aid kit or a tool box. It's all aluminum, measures 12 x 14 x 3 in., is easily installed.

Contact Mr. S. S. Livingstone, Midwest General Corp., 440 E. Jefferson Ave., Detroit 26, Mich. Phone: WO 2-2640.

Coiled Reefer Cord

is for truck-trailer standby refrigeration systems requiring electric power. The Autac Reefer Koiled Kord, as it's called, is made in 3- and 4-conductor types from 12 to 16 gage and is said to meet Underwriter Labora-

(TURN TO PAGE 332, PLEASE)

Step In *Delivery Body*

A New Standard of Acceptance

Boyertown "Better Built" Truck Bodies

Merchandiser *Delivery Body*

Long the makers of quality-built truck bodies to meet every delivery need, Boyertown offers seventeen basic standard production body models. Whether you buy or lease your trucks Boyertown's various types and sizes of bodies will fit practically all your delivery, service or merchandising operations.

This complete line of delivery bodies have loadspace dimensions from 6′ to 18′ long, with capacities from 176 to 862 cu. ft., and may be installed on flat back cowl or forward control type truck chassis of your choice.

Over 86 years of Boyertown experience and craftsmanship as designers and builders of quality delivery vehicles have seen the production, in our plant, of horse drawn wagons through today's modern truck bodies "Better Built" of all High Strength Alloy Steel. These new model truck bodies, functionally designed for the Owner, Driver and Maintenance Man establish new standards for truck bodies serving all types of businesses.

Write for full descriptive "Better Built" Truck Body information today.

BOYERTOWN AUTO BODY WORKS Inc
BOYERTOWN, PENNA.

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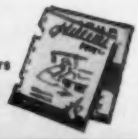
TWX Boyertown, Pa. 59

HUNTER CAB HEATERS

FOR GAS OR DIESEL RIGS —ALL TYPES OF BODIES

- Gasoline or LP-gas combustion.
- Independent of vehicle engine.
- Shirt-sleeve warmth at all times —on or off the road.
- Low cost, low fuel consumption.
- Conform to ICC regulations.
- 5,000-15,000 BTU heat rating, thermostatically controlled.
- Safe, dependable—exhaust gases vented to outside.
- Continuous spark ignition—unfailing combustion, sub-zero starting.
- Compact, easily installed, easily serviced.

Write for literature on Hunter Cab Heaters Cargo Heaters Cargo Coolers



HUNTER MANUFACTURING CO. 30525 AURORA RD. SOLON, OHIO

TRANSPORT HEATING AND REFRIGERATION

New Products

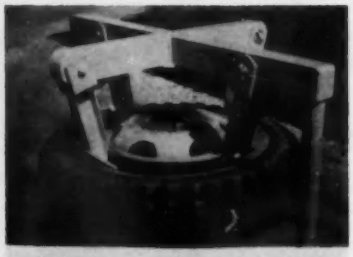
Continued from Page 330

tories' specifications. The 4-ft cord extends to 25 ft. Retractability is guaranteed for four years.

Contact Mr. R. N. Burkle, Pres., Autac, Inc., P. O. Box 1071, New Haven, Conn. Phone: SP 7-2626.

Truck Tire Bead Breaker

handles 20 and 22 in. wheels—both spoke and disc, tube types. The Tire-King brakes the beads and pulls the tire loose in two to five minutes. In



operation, the shoes are drawn up hydraulically to draw the bead away from the rim. The rim is then removed from the spider and the tire is lifted off.

Contact Myatt Johnson, Pres. Tire-King Equipment Co., P. O. Box 1444, Wichita Falls, Tex.

Oil Filter

is the new AC "triple trapper" series. The new filters have a resin-impregnated filter paper which traps particles as small as 1/100,000 in. Increased filtering area gives more trapping capacity. New pleat design reduces clogging.

Contact Mr. W. J. Oldfield, Adv. & Promotion Director, AC Spark Plug Div. General Motors Corp., 1300 N. Dort Hwy., Flint 2, Mich.

"Scru-Drill"

is a new double-purpose tool from Black & Decker which is both a drill and power screwdriver. It handles most drills, bits and augers. By turn-

ing the spindle collar, it converts to a power screwdriver with built-in screwdriving clutch. The "Scru-Drill" can also be used to run up nuts, fills many requirements in the fleet body shop.

Contact Mr. J. F. Apsey, Jr., Dir. of Public Relations, Black & Decker Mfg. Co., Towson 4, Md. Phone: VA 3-4400.

Truck Tire

takes the impacts and rough terrain of off-highway service plus the heat and wear of high speed over-the-road operations. It's the new U. S. Royal Super Fleetmaster made with nylon cord and steel cable. Nylon is used in the carcass to protect against breaks and blowouts. Two layers of steel cable are placed under the tread to protect against cuts and ruptures in the tread area. The tire is particularly suited for ready-mix concrete service, logging, and dump trucks. It's offered in sizes from 7:50-20 to 11:00-24 in both tubed and tubeless construction.

Contact Mr. H. W. Dodenhoff, Sales Mgr., Commercial Tires, United States Rubber Co., 1230 Ave. of the Americas, New York 20, N. Y.

(TURN TO PAGE 334, PLEASE)

FREE ENGINE TORQUE SPECIFICATION BOOK

TORQUE WRENCHES *of Life Time Accuracy*

Sold around the world by leading hand tool manufacturers, mail order houses, chain stores, specialty houses. Inch-pound, foot-pound and metric models in wide range of different capacities.

Sturtevant Spring Tester

With any torque wrench, quickly and accurately tests and matches sets of valve, clutch and other coil springs.

Write Department 600 for Free Book and Catalog

P. A. STURTEVANT CO. ADDISON (QUALITY) ILLINOIS

"We ended costly impact breaks by switching to nylon cord tires"

reports William R. Riley, Vice President, Yellow Transit Freight Lines, Kansas City, Mo.

"WE BUY NYLON CORD TIRES NOW— simply because they give us better and safer service at lower cost per mile. And since we've been using nylons, we've practically eliminated blowouts due to impact breaks . . . and had far fewer road delays. This has meant savings in repair costs, greater safety for our drivers and cargo.

"We own over 2,000 vans, tractors, and trailers, operating round-the-clock over a wide network of highways between the Great Lakes and the Gulf of Mexico. We offer a year-round, scheduled service that our shippers count on day after day. "Dependability plus" is the Yellow Transit motto. That's why we won't settle for anything less than a nylon cord tire."

PROVE TO YOURSELF that the advantages of nylon cord tires add up to big savings under any road and load conditions. Ask your dealer about nylon cords today. Nylon cord tires are available from all tire makers.

THE SAFEST, STRONGEST TIRES ARE MADE WITH NYLON

Du Pont nylon for tire cord

DU PONT

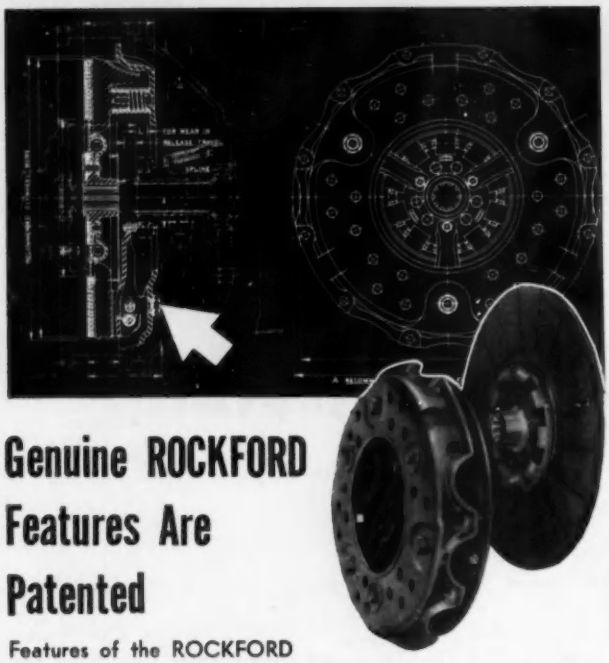
REG. U. S. PAT. OFF.

BETTER THINGS FOR BETTER LIVING . . . *THROUGH CHEMISTRY*

50,000 lb Talbert Flatbed

This is the Model No. TF25-35 Talbert flatbed trailer. It's 35 ft long, weighs 10,500 lb empty and has a rated payload capacity of 50,000 lb. It has wide-flange construction on main frame members for extra strength. Maker is Talbert Trailers, Lyons, Ill.

ROCKFORD



Small Spring Loaded

Heavy Duty Spring Loaded

Oil or Dry Multiple Disc

Heavy Duty Over Center

Power Take-Offs

Automotive Spring Loaded

Genuine ROCKFORD Features Are Patented

Features of the ROCKFORD RT CLUTCH Driven Members are covered by patents and patents pending. To give your product the full advantages of these ROCKFORD developments, it is necessary to specify ROCKFORD CLUTCHES. Let our engineers help you determine the type and size clutch best suited to help improve the power transmission control in your next model.

SEND FOR THIS HANDY BULLETIN
Gives dimensions, capacity tables and complete specifications. Suggests typical applications.

ROCKFORD Clutch Division BORG-WARNER
1335 Eighteenth Ave., Rockford, Ill., U.S.A.
Export Sales Borg-Warner International — 36 So. Wabash, Chicago 3, Ill.

CLUTCHES

New Products

Continued from Page 332

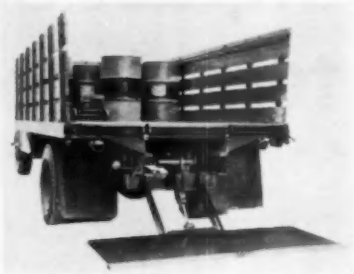
Portable Degreaser

is a chemical vapor cleaning machine which is wheel-mounted. An electrical thermal switch eliminates water piping formerly used to prevent the escape of chemical vapor. It's operated on either 115 or 220 volt AC current.

Contact R. D. King, Pres., King Co. Inc., 21 Carteret St., Port Reading, N. J. Phone: ME 4-5757.

Electric Tailgate Loader

has 1500 lb capacity, fits all trucks from ¾ ton to 2½ tons. Safety latches hold the tailgate in upper position so loads can also be carried on the tailgate without losing hydraulic power.



Vertical lift is 48 in. Net weight is 500 lb. The loader is push button operated.

Contact Arden Collins, Pres., Collins Associates, Inc., 4902 Hueworth Ave., Cincinnati 38, Ohio. Phone: GR 1-9999.

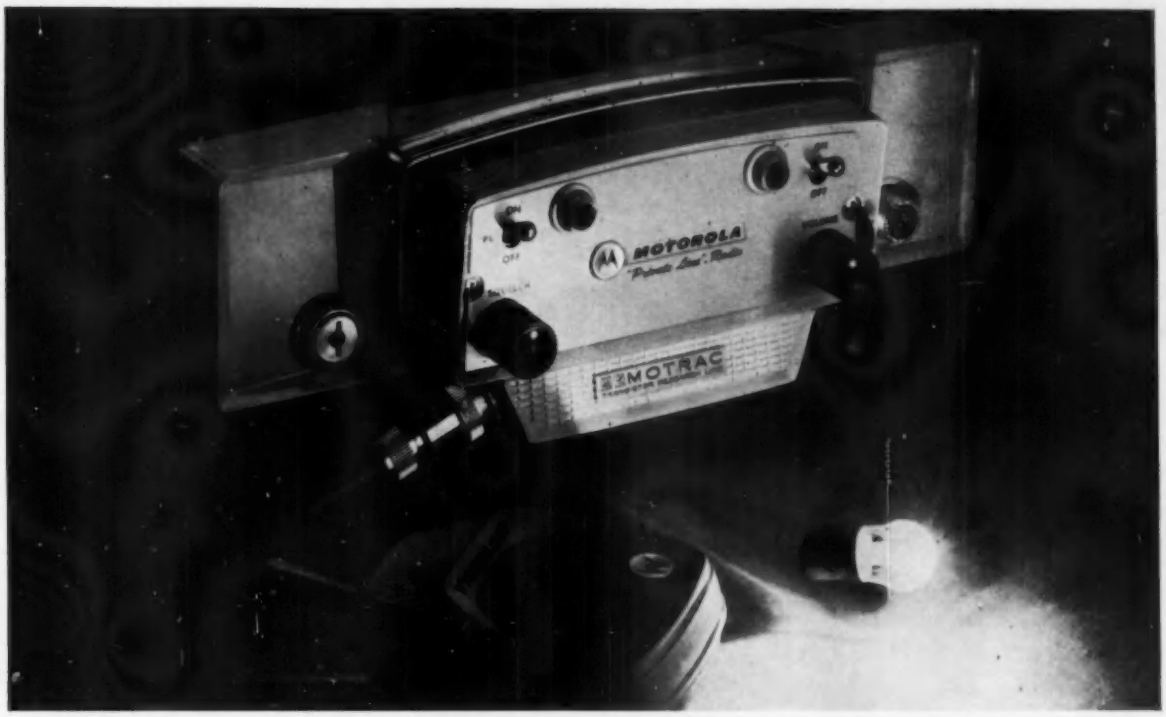
Liquid Lock

is a sealant for locking nuts and bolts. It makes any threaded part self-locking. Named Locktite, the plastic liquid dries instantly, requires no heating or mixing.

Contact Robert E. Carroll, Jr., Mgr., Market Development, American Sealants Co., 103 Woodbine St., Hartford 6, Conn. Phone: JA 2-1188.

(TURN TO PAGE 336, PLEASE)

(Advertisement)



Even your dome light draws more current than MOTRAC 2-way radio!

Motorola ends costly power drain problems and idling expense with the first fully transistorized receiver and power supply

What makes Motorola MOTRAC radio the most economical and reliable 2-way radio unit in the annals of mobile communications? Not just one or two new features, but a score of revolutionary design advancements that bring you the very finest set ever engineered.

1. On standby—the MOTRAC receiver draws only a trickle of current—actually 80% less than conventional units—with an occasional increase to maintain crystals at proper temperature for precise on-frequency operation (even your dome light draws more current than MOTRAC radio). Yet, this radio is always poised for instant reception, thanks to its fully transistorized receiver. Result: no life-shortening battery drain . . . no more costly, unnecessary engine idling.

2. MOTRAC radio eliminates the most common maintenance problems: vibrators in the power supply and tubes in the receiver. All are replaced by stabilized long-life transistors.

3. Up to 40°F cooler operation means less aging and strain on components. Reason: no more receiver tube filaments; a more efficient power supply; a battery saver switch to cut off transmitter filaments; and two separate heat sinks—one for power supply, another for transmitter output tubes.

4. The MOTRAC receiver operates directly from the 12-volt battery; its low voltage operation results in less electrical strain on components, assures long life.

5. Traditional Motorola engineering and production excellence are evident throughout MOTRAC radio. Transistors undergo three separate checks, including a week of stabilization at 185°F. Only industrial-type tubes, especially suitable for the rigors of mobile operation, are used in the transmitter.

6. Patient production testing continues under stringent quality control procedures. First, each module is tested. Then each chassis is independently checked. Next, each radio is tested as a composite whole. Finally, the entire radio and associated accessories are checked out as a complete operating system.

7. MOTRAC radio is conservatively designed. The receiver has *even higher* reserve gain than conventional Motorola units to assure *peak performance* for many years. Also, power supply transistors are operated under an exceptionally high safety factor to assure extended service life.

8. Completely independent receiver and transmitter chassis, with no power supply in common, assure reliable reception regardless of transmitter performance.

9. MOTRAC radio offers you 2½ to 3 times higher audio output than conventional sets.

10. MOTRAC radio is designed for split-channel operation. *Both* receiver and transmitter meet critical split-channel stability frequency requirements.

Experienced users have been field testing MOTRAC radios for many months. The results are in—and they're excellent. We'd like to tell you *all* about them. Write, wire or call: Motorola Communications & Electronics, Inc., A Subsidiary of Motorola, Inc., 4501 West Augusta Blvd., Chicago 51, Ill., SP 2-6500. MOTRAC is a Motorola, Inc. trademark.

MOHAWK Announces a major development in retreading truck tires!

From Mohawk research in the searing heats, the fantastic shock loads, that tires must withstand in landing the new jet aircraft, comes the most sensational advancement in the history of retreading!

It's the new Mo-Mile Process! A brand new process for retreading truck tires that will result in tire mileage never before possible . . . that has been carefully tested, fully proved in the laboratory and on the road!

115,000 miles on the drive wheels of a twin screw diesel—62,500 lbs. G.V.W. on a turnpike run! 58,300 miles on the drive wheels of a single screw diesel, 58,500 G.V.W. over the eastern mountains! *And all tests were against the finest premium grade tread rubber available.*

Available now! To slash your tire costs dramatically! Any qualified recapper can use the new Mohawk Mo-Mile Process on his present equipment without changing his present methods.

Send us the name of your recapper on the coupon below. We will rush him full details immediately, without obligation.

MOHAWK

The Mohawk Rubber Company, Akron 5, Ohio

Our recapper's name is listed below. Send him full details without obligation on your new Mo-Mile Process for retreading truck tires.

Recapper's name_____

Address_____ City_____

Our company is_____

Address_____

By_____ Title_____

New Products

Continued from Page 334

Truck Tire Balancer

is a self-loading unit for handling large truck and bus tires. The Monarch Mile Master balances tires up

to 11:00x22 to within ½-oz accuracy. One man can handle all balance jobs, since the machine is self-loading.

Contact Mr. L. Baum, Pres., Monarch Mfg. Co., 1218 *Santa Fe, Berkeley, Cal. Phone: LAndscape* 4-5235.

Synthetic Grease

is resistant to gasoline, solvents and water. Called Anderol L-237, it is for use on fuel systems, gate valves, pumps and other applications where grease must be resistant to petroleum products and water.

Contact Donald W. Grier, Sales Correspondent, Lehigh Chemical Co., P. O. Box 120, Chestertown, Md. Phone: Chestertown 1290, Ext. 41.

(TURN TO PAGE 338, PLEASE)

Multi-Stop Van

New features of the DeKalb furniture-van include low loading height, removable barrier rods, and slotted interior with full width door opening. Truck has 72 in. head room and inside width of 68 in. Body is made in 8, 10 and 12 ft lengths for most forward control chassis. Maker is the DeKalb Commercial Body Co., DeKalb, Ill.

When your equipment is on the go 24 hours a day

...you need G-E C.I.M. lamps

*Flat, Far-Reaching Beam *All Glass Construction *6, 12 and 24-Volt Sizes
*Won't Shatter When Spattered *No Inner Bulb To Blacken

FLOODLAMPS to illuminate the work area...

G-E No.	Circuit Volts	Watts	Bulb Dia.
4078	6	50	5¾"
4478	12	60	5¾"
4578	24	60	5¾"

DRIVING LAMPS to light up the highway ahead...

G-E No.	Circuit Volts	Watts	Bulb Dia.
4080	6	50	5¾"
4480	12	60	5¾"
4880	24	60	5¾"

Choose and specify the General Electric C.I.M. Lamps (for Construction, Industrial and Mining Equipment) you need. See your G-E C.I.M. Lamp supplier today! General Electric Co., Miniature Lamp Dept. M-914, Nela Park, Cleveland 12, Ohio.

Progress Is Our Most Important Product

GENERAL ELECTRIC

The Oneida Suburban

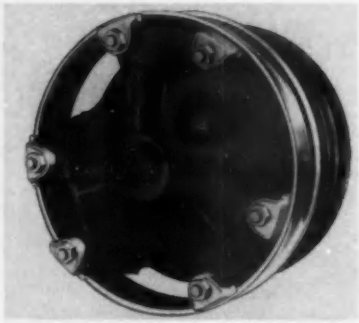
This is the Oneida Suburban, a new line of transit passenger coaches from Oneida Products, Div. of Henny Motor Co., Canastota, N. Y. The new bus has 76-in. headroom, full wrap-around two-piece windshield, and large luggage compartments under the floor. Units are available with forward or rear power with a large variety of engines, transmissions, brakes, steering and electrical systems. The Suburban is now in production.

New Products

Continued from Page 336

Truck Wheel

is a new multiple disc demountable type named the "Hutch-Carr." It's made of pressed steel design, weighs about 30 lb less than regular cast spoke wheels. Manufacturing process



is closely controlled. Wheel weight is guaranteed within 1 lb and wheel balance within 8 oz.

Contact Ted Hutchens, Pres., Hutchens & Son Metal Products, Box 1355 S.S.S., E. Division Street Rd., Springfield, Mo.

Tape Recorder

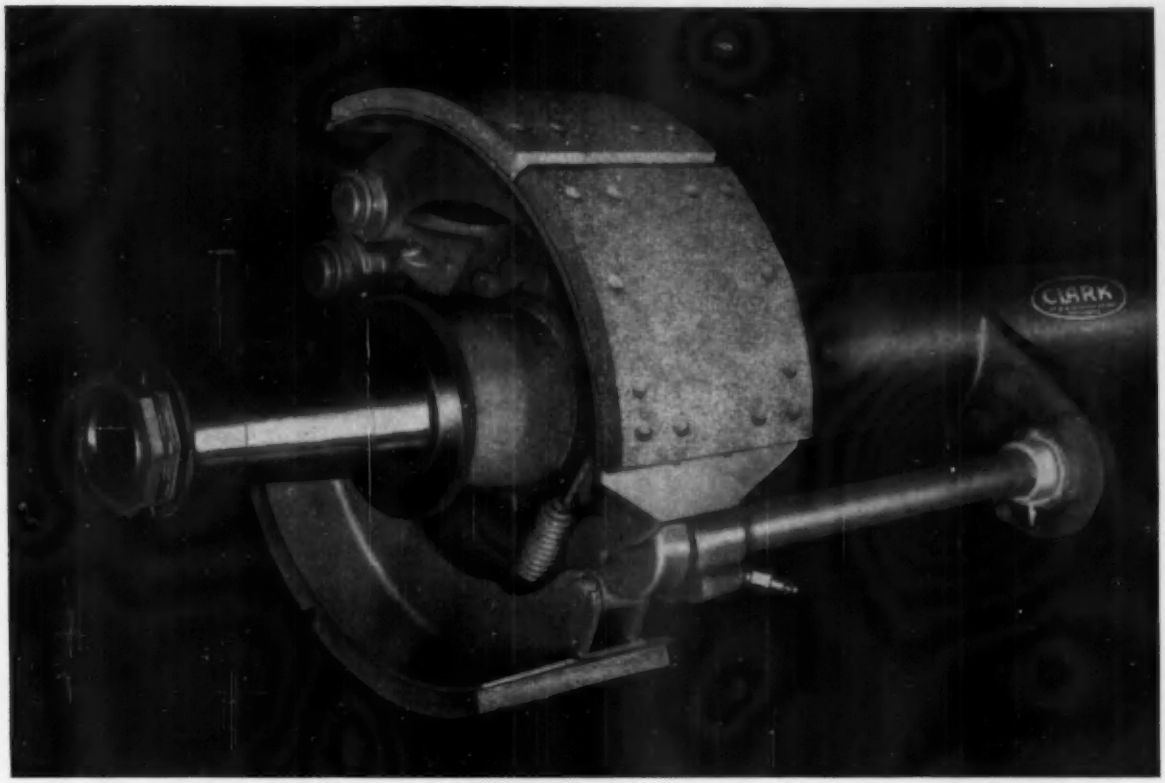
weighs just 15 lb, has a two hour recording cartridge. Called the Telecto recorder Model No. TR 555, it features a four-track, ¼ in. tape which is easily loaded. Unit is especially suitable for car and truck use as it's not affected by vibration. It operates on a 12 volt ignition system.

Contact Edward Waldman, Sales Mgr., Telectro Industries Corp., 35-16 37th St., Long Island City, N. Y. Phone: YEllowstone 2-8600.

Special Purpose Greases

are offered in six types by the Robert Bosch Corp. They are: High temperature ball and roller bearing grease;

(TURN TO PAGE 340, PLEASE)



BEHIND THIS NEW CLARK TRAILER AXLE

40 years of automotive experience . . .
13,000,000 trailer axles and housings . . .

No other axle built today has the experience background of Clark's new lightweight Series NDS 18,000 and 20,000 lb Models. The features of these axles have been tested, proved, and perfected by the experience of literally millions of users since the introduction of the first Clark axle over 40 years ago. You get, in these new axles:

- **Forged alloy-steel brake spiders—*demountable! Lightweight,* yet immensely strong. Can be bolted or riveted on—no welding needed.**
- **New superior S-cam brakes**
- **Arc-welded shoes for greater strength, longer life**
- **Grease-proof seals on cam shaft**
- **Self-aligning outboard bearings**
- **Induction hardened inner wheel bearing seats**
- **Newly-designed anchor sections, bushings, rollers and pins**
- **Interchangeable parts between both Clark axles and other makes.**
- **Two lightweight axles, with identical wheel ends, for 18,000 and 20,000 lb applications.**

CLARK® EQUIPMENT

For all the facts, send for Bulletin AD-800—the coupon gets it promptly.

CLARK EQUIPMENT COMPANY **Axle Division**
Buchanan 3, Michigan

Please send further information on new Clark series NDS Trailer Axles.

NAME _____

COMPANY _____

ADDRESS _____

CITY _____ STATE _____

Telescoping Trailer

Rogers Bros. Corp., Albion, Pa., built this special trailer for Gleason Bros., Inc., Northampton, Conn. It was used by the fleet to haul the world's largest periscope for the Polaris missile firing submarine, the George Washington. The delicate periscope was almost 50 ft long and weighed over a ton. The trailer has an expanded length of 46 ft, closes up to 32 ft. This permits travel on return trips within legal limits avoiding the need for special oversize permits.

WEATHERHEADLINERS
FOR FLEET SERVICE SHOPS

Basic brass fittings stock assortment contained in metal cabinet with 64 plastic drawers, each with movable partitions. Tube size and pipe thread information on front panel edges. Ask for F-2 cabinet assortment.

Light duty hose and hose ends for repair of hydraulic, air, fuel and oil lines. Most-used assortment contained in metal cabinet HC-11.

Air brake brass fittings assortment for general repair needs, contained in metal cabinet with 20 plastic drawers. Ask for assortment AB-20.

Heavy duty hose and hose ends for repair of hydraulic air, fuel and oil lines on heavy duty equipment. Most-used assortment contained in metal cabinet HC-1.

Most complete line of automotive and truck hose assemblies and fittings, available from your Weatherhead jobber. Call him today.

Hydraulic brake lines assortments: BA-48 holds 48 steel brake lines (3/16" and 1/4") in varying lengths, with fittings, for most passenger car & light truck applications. BA-24 assortment contains 24 (3/16") steel brake lines, all same length, with fittings for heavy duty applications.

WEATHERHEAD

THE WEATHERHEAD COMPANY
Fort Wayne Division • Dept. CCJ-11
128 W. Washington Blvd. • Fort Wayne, Ind.

New Products

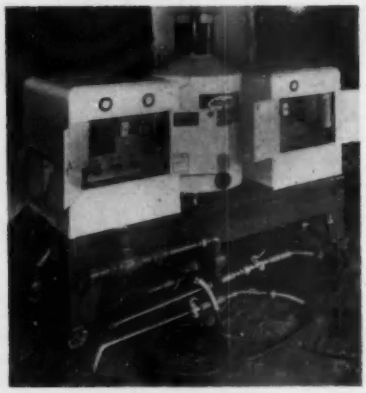
Continued from Page 338

Gear grease; Cold-resisting grease; Cam grease; Anti-acid grease, and windshield wiper grease.

Contact Felix Manskleid, Adv. Mgr., Robert Bosch Corp., 40-25 Crescent St., Long Island City 1, N. Y. Phone: STillwell 6-1644.

Steam Cleaner

is the Kelite Mark IV for heavy-duty and high volume steam cleaning service for construction equipment and large trucks and trailers. It operates under positive pressure, supplies hot cleaning and phosphating solution at



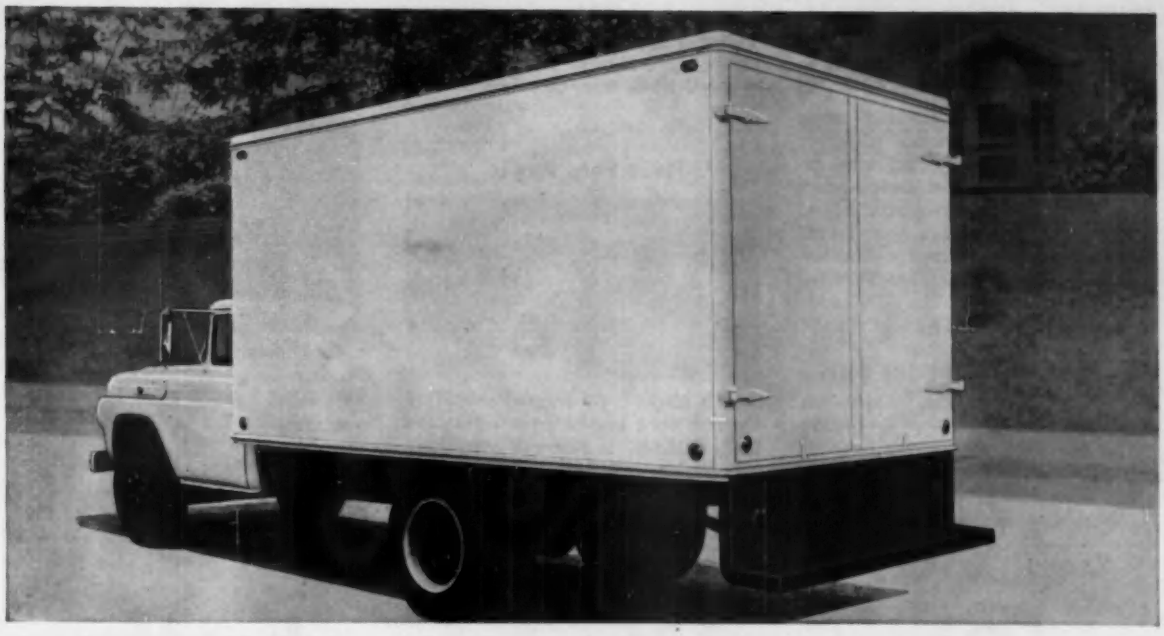
600 gph. It's offered in a gas-fired model or a fireless model which uses steam from an existing supply. Stationery and castor-mounted units are available.

Contact Donald J. Wood, Technical Service, Kelite Corp., 1250 N. Main St., Los Angeles 12, Cal. Phone: CApitol 2-0201.

Closed Circuit TV

is now offered by Motorola for fleet use in terminal operations, dispatch-

(TURN TO PAGE 342, PLEASE)

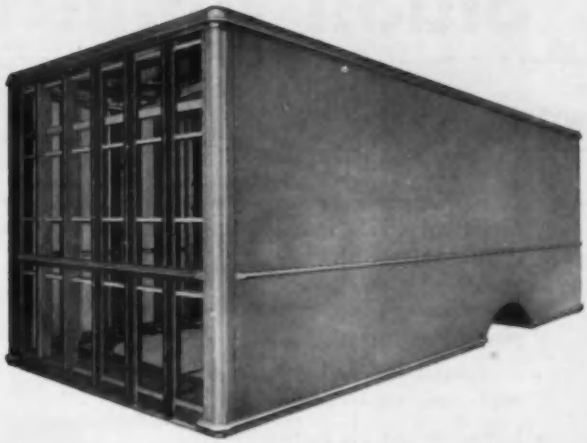


NEW Parish 2-Inch Radius Sections Provide More Cube, Greater Strength

Truck bodies built by your Parish body builder give you more value for your dollar because of—

- ★ All Steel Construction—for rough-and-tumble action
- ★ High Tensile Steel Members—at points of greatest stress
- ★ Replaceable Frame Units—for faster, lower-cost repairs
- ★ Greater cube—for bigger, more profitable payloads
- ★ Extra Strength and Rigidity—far stronger than bodies made from lighter metals.

The next time you order truck bodies, specify Parish steel sections . . . for more strength, for greater durability, at lower cost. Your Parish body builder will install doors, panels and floor to your specifications, and for your particular requirements.



For the name of your nearest Parish body builder, write Parish Pressed Steel Division, Dana Corporation, Reading, Pennsylvania.

©1959 Dana Corporation

● **DANA PRODUCTS:** Transmissions • Universal Joints • Propeller Shafts • Axles • Torque Converters • Gear Boxes • Power Take-Offs Power Take-off Joints • Rail Car Drives • Railway Generator Drives • Stampings • Spicer and Auburn Clutches • Parish Frames • Forgings

PARISH PRESSED STEEL

DANA Division of Dana Corporation / Reading, Penna.

New Products

Continued from Page 340

ing, garage and office work. System includes cameras and monitors to meet your particular requirements.

Contact Al Batch, Nat. Sales Dept., Motorola Communications and industrial Electronics Div., 4501 W. Augusta Blvd., Chicago 51, Ill. Phone: SPaulding 2-6500.

Fuel Filter

fits in the sediment bowl. There's no lines, no plumbing to cut or install. Called the Wells Capac fuel filter, it has a Duocron two-stage pleated filter which is said to give better filtering. It filters out and absorbs all dust, dirt and scale as small as five microns. Five Capac models fit 90 per cent of all cars and trucks.

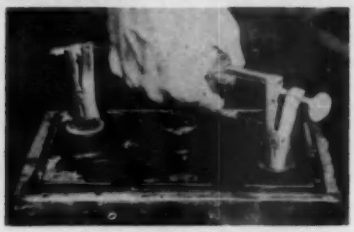
Write Wells Mfg. Co., Fond du Lac, Wis.

1960 Ford Anglia

This is the 1960 Anglia, one of 14 English Ford models imported to the United States. It features completely new styling. Wheelbase is 90½ in. Engine is 4-cyl overhead valve rated at 41 hp.

Battery Carrier

is called the Sure-Hold, gives positive battery carrying with no tilting, swaying or slipping. The lifter grips the



battery firmly by the terminals. It's said to be easily connected, and is adjustable to all batteries. Clamps are plastic lined to protect the battery terminals.

Contact Ralph Brunson, Lite-Weight Tool & Mfg. Co., 11422 Fleetwood St., Sun Valley, Cal. Phone: CH 7-7901.

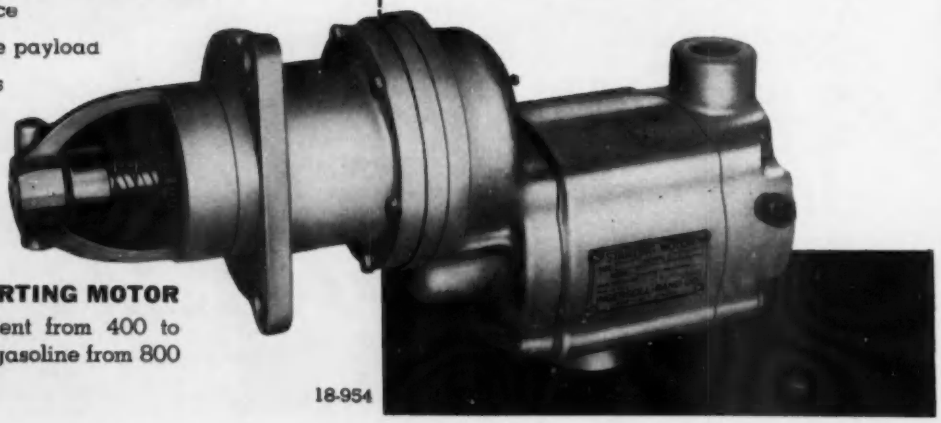
modern air starting slash maintenance costs

NEW SIZE 10BM HEAVY-DUTY AIR STARTING MOTOR

Outperforms all other air starting motors of comparable size. Fully interchangeable with electric starters, with these important advantages:

- faster starting in any weather with no power loss
- eliminates expensive electrical components and costly maintenance
- lighter weight for more payload
- fewer highway repairs

10 lbs. LIGHTER . . .
50% MORE POWER . . .
uses 30% LESS AIR . . .



SIZE 10BM AIR STARTING MOTOR
(for diesel displacement from 400 to 2300 cu. in.—gas or gasoline from 800 to 4600 cu. in.)

18-954

Slave Battery

is for starting cars or trucks with dead batteries. The Exide Sure Starter, as it's called, has a separate

hold-down base for service truck mounting, can be easily removed for remote service. A built-in manually operated charger keeps the slave battery charged.

Write Exide Automotive Div., P. O. Box 6266, Cleveland 1, Ohio.

The Datsun Pickup

This is the half-ton Datsun pickup imported from Japan by Luby Datsun Distributors, Forest Hills, N. Y. Reported to be very economical to operate, the Datsun retails for $1588. P.O.E.

Two-Speed Drill

is the Shopmate Model No. SD-122, ½-¼ in. power drill. A flick of the switch gives high-speed drilling for wood, sheet metal and plastic or low-speed drilling for angle iron, cement or other hard and heavy materials. Speeds are 550 and 2000 rpm. Motor has ball bearings, carries a 5 amp rating.

Contact Mr. G. W. Weatherby, Sales Mgr., Portable Electric Tools, Inc., 320 W. 83rd St., Chicago 20, Ill. Phone: HU 3-6700.

Vehicle Control Board

can be used for scheduling PM, as a route board or as a vehicle location center. Called the Boardmaster Visual Control, it's an aluminum board 38½ in. wide and 24 in. high. Figures are

(TURN TO NEXT PAGE, PLEASE)

motors 70% *

SIZE 3BM AIR STARTING MOTOR

For diesel displacement up to 300 cu. in.—gas or gasoline up to 600 cu. in.

SIZE 5BM AIR STARTING MOTOR

For diesel displacement from 250 to 500 cu. in.—gas or gasoline from 600 to 1250 cu. in.

SIZE 20BM AIR STARTING MOTOR

For diesel displacement from 900 to 9000 cu. in.—gas or gasoline from 1250 to 20,000 cu. in.

18-954-1

* for details . . . on the savings made possible with I-R's complete line of Air Starting Motors, send for your copy of "Go Modern—Start With AIR".

Ingersoll-Rand

11 Broadway, New York 4, N. Y.

New Products

Continued from Page 343

written on cards, then inserted under stamped grooves on the metal board.

Contact Hines Hatchett, Pres., Graphic Systems, 55 W. 42nd St., New York 36, N. Y. Phone: WIsconsin 7-8444.

Fire Extinguisher

is a 2½ lb pressurized dry chemical type for use in trucks and cars. The new Fyr-Fyter Model No. 23-3 is approved by Underwriters' Laboratories, has a leak-proof valve, is for use on flammable liquid, gas and electrical fires. Operating range is up to 12 ft.

Contact J. L. McGarry, The Fyr-Fyter Co., 221 Crane St., Dayton 1, Ohio.

Shear Tool

is used to form a tapered angle on the neck of valve guides to keep oil from entering the combustion chamber past valve stems. The tool is used in combination with seat grinding pilots and is adjustable to cut all valve guides. It's offered in eight models to fit various power tools.

Contact Douglas Stolcenburg, Asst. Sales Mgr., Sealed Power Corp., 2001 Sanford St., Muskegon, Mich.

Ignition Analyzer

flashes ignition troubles on the screen, eliminates guesswork from tune-ups, speeds trouble shooting. Primary and secondary voltage patterns can be

shown without changing leads. Analyzer is designed to locate all types of ignition troubles.

Contact Michael Fisher, Sales Engr., Empire Electronics Mfg. Corp., 304 Mt. Pleasant Ave., Newark 4, N. J. Phone: HUmbolt 4-4414.

Hercules Full Frame Trailer

This Hercules dump trailer has a 28-ft body mounted on a 31-ft chassis, carries 43,000-lb payload. It's a full frame trailer, yet is said to reduce deadweight to meet bridge law requirements. Bodies are offered in steel or aluminum models.

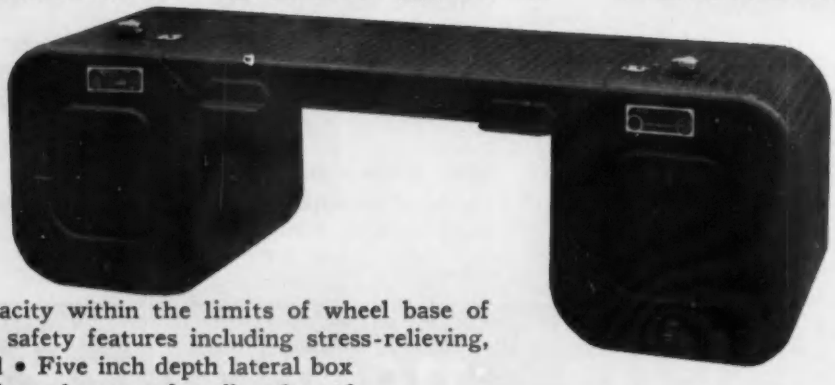
Dry Type Spray Booths

are now offered by Binks in models for cars and trucks. The new line includes filter floor type booths, baffle floor types, filter bench types and and baffle bench booths. All can be equipped with paint arrestor filters.

Contact Robert L. Binder, Adv. Mgr., Binks Mfg. Co., 3114 Carroll Ave., Chicago 20, Ill. Phone: VA 6-4200.

Prior

New "SADDLE MASTER" SAFETY TANK



Maximum capacity within the limits of wheel base of tractor • All safety features including stress-relieving, embossed head • Five inch depth lateral box to allow sufficient clearance for all makes of trailers • Available as standard in two sizes • I.C.C. approved

PRIOR PRODUCTS, INC.
P. O. Box 7608 • Dallas, Texas

One of 68 Hendrickson-equipped dump trucks in the fleet of Durrence Trucking Co., this Ford T-800 features a Hendrickson Model RT-320 Series Tandem Rear Suspension.

Durrence standardizes on HENDRICKSON TANDEM

"I've been in the trucking business for 18 years, and during that time I have used Hendrickson Tandem Suspensions exclusively." So says Mr. Harold Durrence of Durrence Trucking Co., Ft. Lauderdale, Florida.

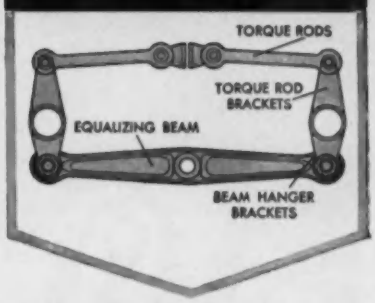
The company is presently operating a fleet of 68 dump trucks. The oldest of these, 1954 models, have averaged nearly 400,000 miles each, with one unit estimated to have given 600,000 miles of service.

Tough construction hauling is Durrence's specialty. On a recent job lasting five months, 20 of the company's trucks logged a total of 1,550,000 miles. Mileage such as this is quickly reflected in maintenance costs, which, because of Durrence's insistence upon quality components backed up by a thorough preventive maintenance program, have been highly satisfactory.

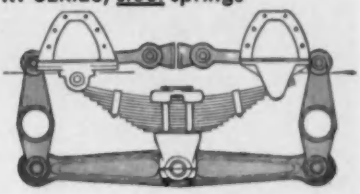
Says Mr. Durrence, "Our experience from the standpoint of maintenance and operating costs adds up to one thing: we will continue to specify Hendrickson Tandems on new equipment purchases."

All Hendrickson Tandem Suspensions are interchangeable between trucks, tractors and trailers—and are also interchangeable between makes of axles. Parts inventories can be reduced! Fleet operators can specify the design best suited for each particular operation.

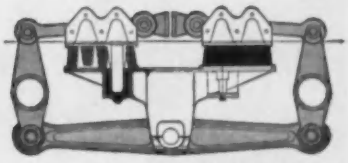
STEEL, RUBBER or AIR SPRINGS in ONE BASIC DESIGN!



RT SERIES, steel springs

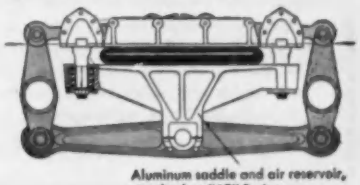


RS SERIES, rubber load cushions



Aluminum saddle standard on "RS" Series.

AR SERIES, air springs



Aluminum saddle and air reservoir, standard on "AR" Series.

Now! Heat treated lightweight forged steel or forged aluminum equalizing beams for all three series of Hendrickson Suspensions.

HENDRICKSON Mfg. Co.

HENDRICKSON MFG. COMPANY
8001 WEST 47th STREET
LYONS (Chicago Suburb), ILLINOIS

Trailer Spring Suspensions

WHAT DO YOU ask for in the selection and design of a trailer suspension? Usually the final answer is a compromise among. . . .

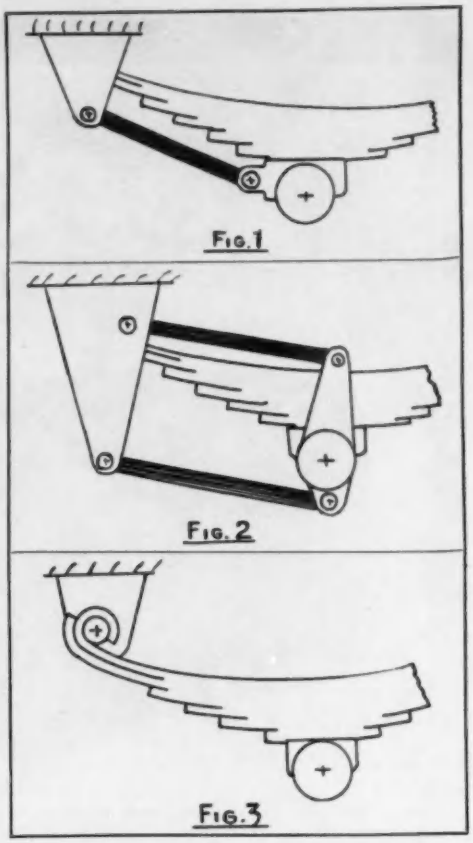
- Riding characteristics
- Stability
- Braking reaction
- Weight
- Loading height
- Cost

Each of the three suspension types available today—spring, air and rubber torsion—tackles the problem in a slightly different way. Here's the scoop when it comes to spring suspensions. . . .

Ride characteristics depend on spring deflection. On a single axle suspension, spring rate (pounds of load on the spring which results in one inch of deflection) varies from perhaps 1100 lb empty to as high as 5500 lb at the rated load of the suspension. This variable rate is achieved by using multiple stage springs, by variable contact spring pads or by use of shackles.

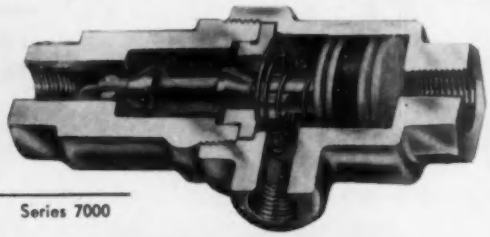
On a tandem suspension, spring rate will normally be about 3500 to 5000 lb of load per inch of deflection under all loading conditions. In determining spring rate, attention must be given tire clearance, loading height and stability. An extremely soft spring results in lower

(TURN TO PAGE 348, PLEASE)



LOOK *THIS ONE* *OVER* CLOSELY!

This new series 7000 automatic ejector operates at 20 lbs. instead of 40 lbs., making it adaptable for use on brake service lines, bus door openers, and interlock lines. New construction includes all nylon operating parts, both spindle and piston. New U cup at packing replaces the usual O-ring packing . . . giving approximately 5 times the packing life. The high pressure discharge drives out both liquids and solids keeping air tanks dry and clean . . . reducing brake maintenance.



Series 7000

GEORGE
MANUFACTURING COMPANY
10-16 Harvey Street, Philadelphia 44, Penna.

WRITE FOR FREE LITERATURE TO THE

Do You know the *Hytrol* story?

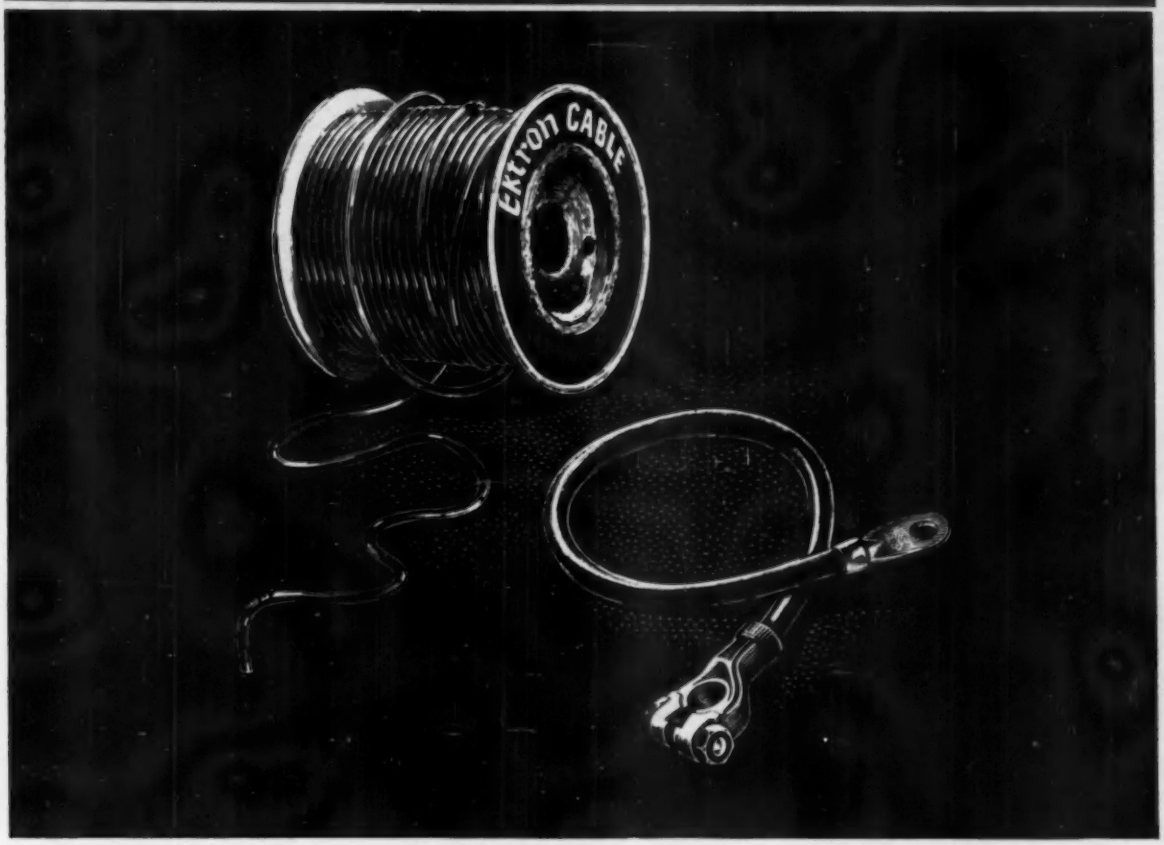
Get the facts on this, the most significant contribution to safety and economy ever presented to the trucking industry; ***SAFE, STRAIGHT, BALANCED NO-SKID BRAKING*** with Hytrol by Hydro-Aire.

Complete information will be sent immediately in response to your letter or wire.

HYDRO-AIRE Division of Crane Co., 3000 Winona Avenue, Burbank, Calif.

BLUE STREAK

Stop ignition troubles before they stop your trucks



Trouble-free Blue Streak Ignition Wire & Cable

Having trouble starting your trucks on cold, damp days? Don't wait till your batteries run down and your drivers burn up. Get Blue Streak's trouble-free ignition wire and cable.

Take Ektron Battery Cable, for example. All plastic, Ektron cable resists abrasion, acid, oil and gas like a duck sheds water. Will it stand up to heat? Mister, Ektron is *flame* resistant! Or if it's ignition cable sets you're looking for, look no further. Blue Streak's all-neoprene spark plug wire has moulded-on boots to assure you of absolutely waterproof, oil-proof and flash-proof connections.

You always start right with Blue Streak wire and cable. That's why smart fleet operators ask for it by name. There's a Blue Streak distributor in your territory. He'll be happy to advise you, or write for catalog to: Standard Motor Products, Inc., Long Island City 1, New York.

Blue Streak... Pioneers in Heavy Duty Ignition

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Trailer Spring Suspensions

Continued from Page 346

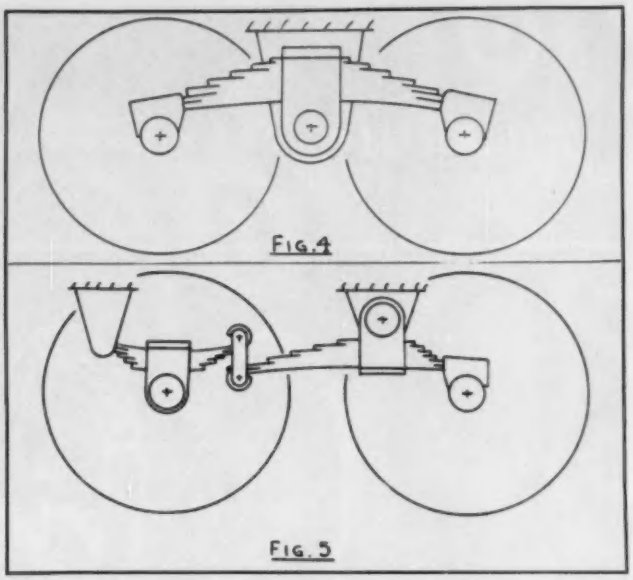
stability, requires increased clearance over the tire to prevent it from contacting the trailer structure. This results in increasing the loading height, limits interior volume in the trailer.

Equalization provisions on tandem suspensions prevent one axle from carrying a greater load than the other in normal operation. Equalization may be achieved on spring suspensions through the designs shown in Figs. 4 through 8. This equalization should operate through all anticipated conditions without "bottoming" or limiting travel of the axle unnecessarily. Should one axle "bottom" or contact a limit stop, the supporting structure will have to be reinforced to resist the shock.

Under normal highway operating conditions, 5½ to 6 in. of equalization (maximum difference in elevation from one axle to the other) usually will suffice. Larger equalization normally results in an unnecessary increase in the loading height of the trailer. Less equalization results in inability of the suspension to negotiate regular road conditions without "bottoming" or hitting limit stops at frequent intervals.

A method must be found for overcoming forces generated in towing the axle. This may be accomplished as shown in Figs. 1 through 3 by use of a single towing radius rod near each wheel, by use of two radius rods in parallel one above the other near each wheel or by use of the springs themselves. In any case, the towing

(TURN TO PAGE 352, PLEASE)



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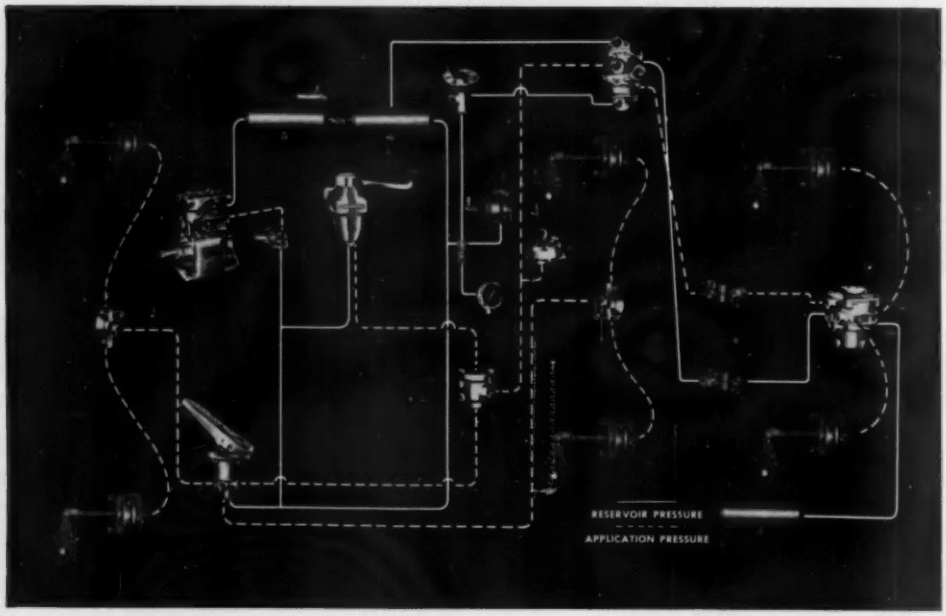

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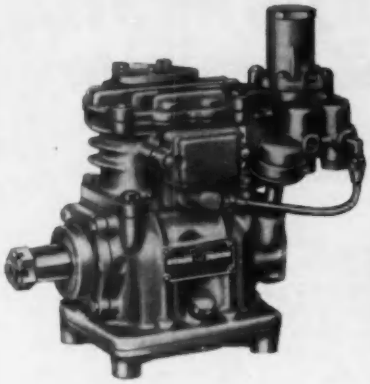

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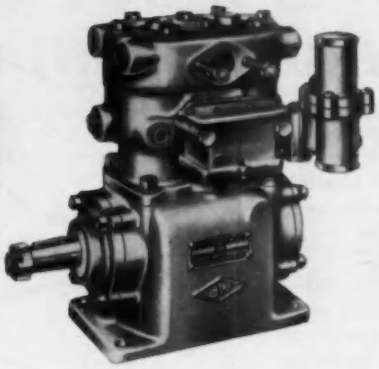
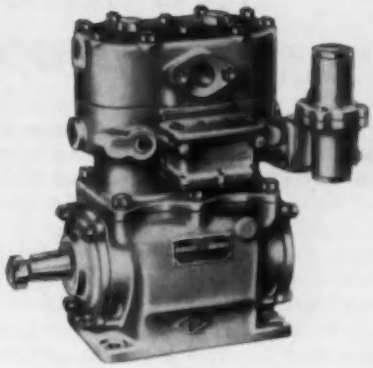


AIR OR WATER COOLED TU-FLO 400



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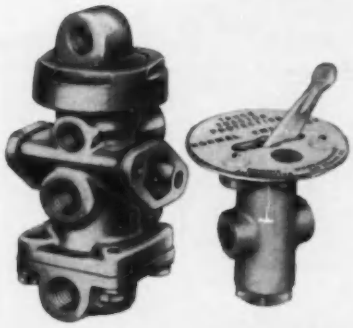

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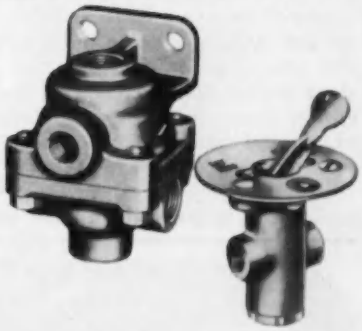

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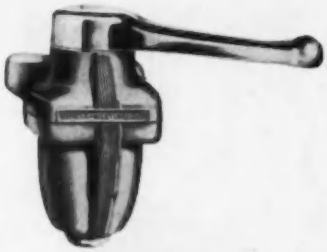

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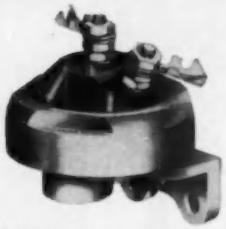

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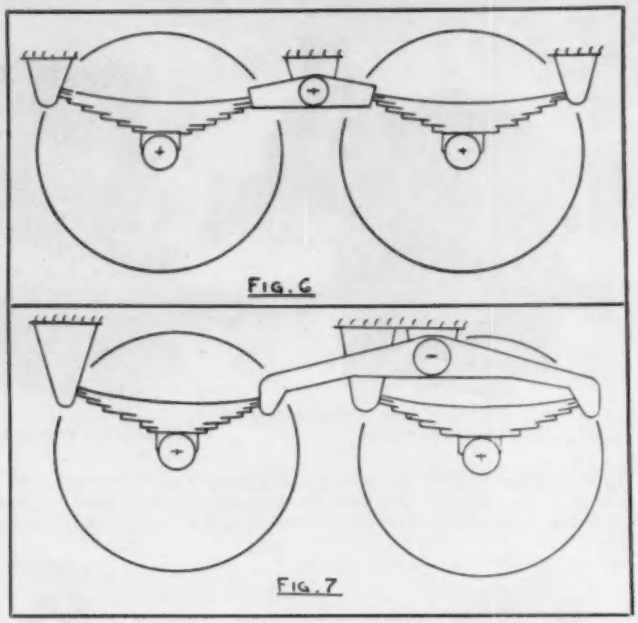
Trailer Spring Suspensions

Continued from Page 348

media should be installed to operate as near as possible to horizontal.

Should the towing rod operate at a steep slope, (about 20 deg from horizontal in loaded condition) an unequal load on one side of the trailer results in improper axle alignment. Depending upon the mounting of the radius rods, this can result in "dog legging" of the trailer or nonparallel axle alignment with resulting high tire wear. Should the towing rod slope above 20 deg from the horizontal, care must be exercised in aligning the trailer since irregular ground may result in an erroneous alignment check.

In computing slope of the towing mechanism when a wrapped eye spring is used (Fig. 3), the line from the center of the spring eye to the center of the axle will be equivalent to the towing rod. A steep slope on the towing radius rods will also result in "humping" or fore and aft shock load on the tractor. This is caused by the change in the fore and aft relationship of the axle to the trailer during vertical movement.



Means of aligning the trailer axle to the kingpin must be provided by either adjustable alignment or some type of self-tracking. The adjustable alignment may be a turnbuckle in the towing radius rod, eccentric

(TURN TO PAGE 354, PLEASE)

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Trailer Spring Suspensions

Continued from Page 352

pins in the radius rod ends, serrated plates on the spring seat on the axle or other similar configurations.

Self-tracking provision relies on the resistance of the tires to side slipping to keep the axle following toward the track of the tractor. Some suspensions use preset alignment, but the fleet operator is unable to correct the alignment should it become defective.

Braking reaction may be taken out through a brake torque rod (Fig. 2) parallelling a normal radius rod. Also it may be taken out through a brake torque rod connecting two axles of a tandem so that they do not turn in relation to each other (Fig. 10).

Where the braking force is taken up as "wind-up" in the spring (Fig. 9) and transfer of the load is possible from spring to spring in a tandem, tire "hop" may be encountered at light loads. In suspensions which have unequal loading characteristics on the axle during braking, this "hop" may become quite violent even at moderate loads. "Hop" is not normally encountered in those gears which take out braking forces through parallel radius rods or other methods which eliminate spring "wind-up."

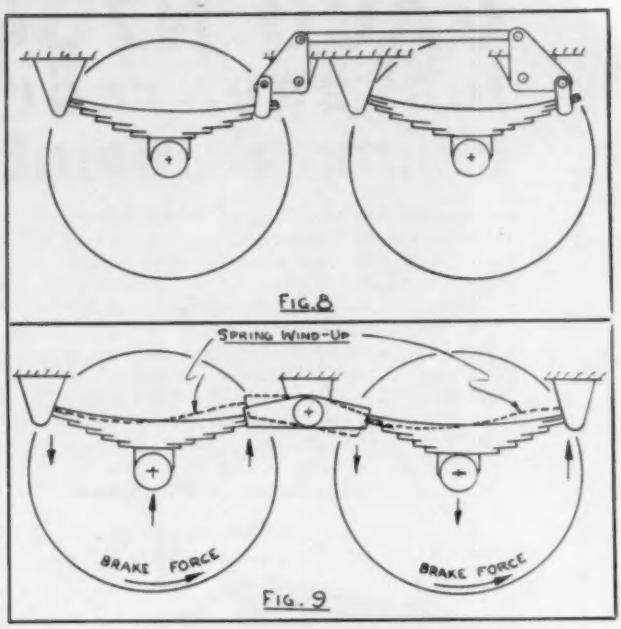

FIG. 8

FIG. 9

Side sway during turns or when traversing uneven roads must be compensated for. Tendency to sway may be compensated for by addition of stabilizing torque

(TURN TO PAGE 356, PLEASE)

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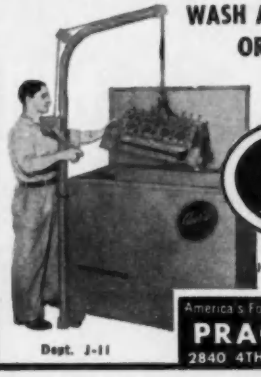

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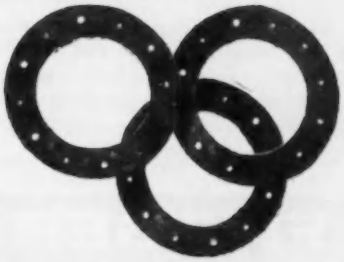

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Trailer Spring Suspensions

Continued from Page 354

rods or other similar items. In leaf spring suspensions, the springs themselves generally are relied on to offer stability.

Tendency of the trailer body to move sideways off the gear is resisted by the spring itself.

Freedom from need for lubrication is desirable. This may be accomplished by the use of rubber torsion bushings, sealed oil bushings or other types of lubrication-free support. To date the rubber bushing offers greatest freedom from difficulty with a minimum of service. In cases where radial movement of the bushing is extreme and axial loading high, sealed plastic or steel bushings in an oil or grease lubricant will generally serve more satisfactorily.

In the case of spring equipment with formed "eyes," care must be taken to prevent the leaves of the spring binding one against the other in the "eye" area when deflected, thus shearing the center bolt. Generally, shock absorbers will not be required with leaf spring designs within the standards currently used in trailers.

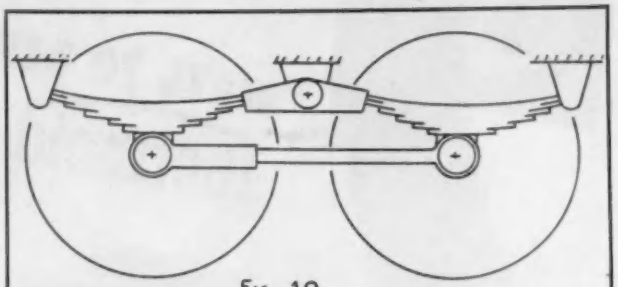

Fig. 10

Spring suspension shown in Fig. 4 results in a heavy suspension with high load concentration at one point in the supporting structure. Axle alignment and brake reaction constitute major problems with most suspensions of this type.

Generally, this suspension is more successful in "off-highway" operations.

Fig. 5 illustrates a suspension which depends upon the relationship of spring lengths for uniform load balance. It concentrates most of the load at the rear contact with the supporting frame. Shock transfer will be high.

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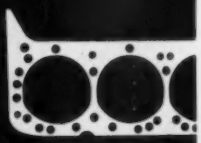

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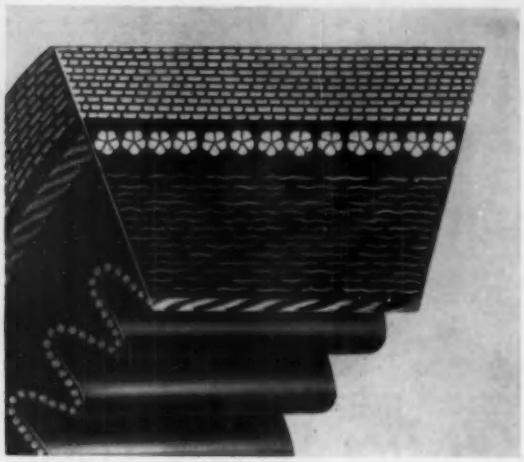

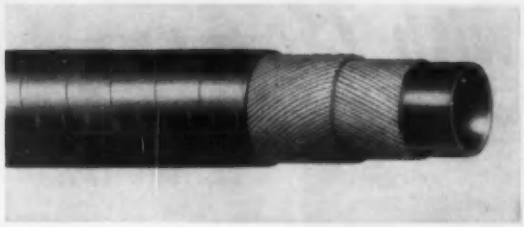

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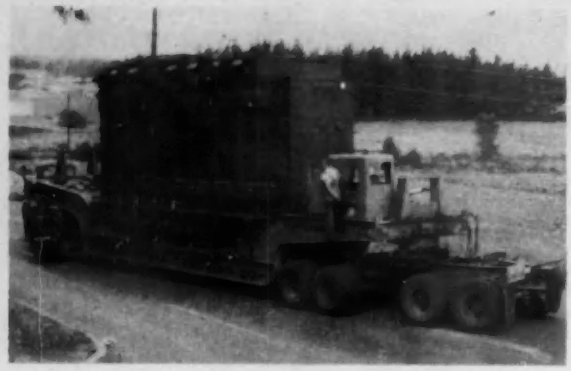

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AIR POWER #881-58

Power Changers 12" thru 17½"

ALL POWER #880-58 uses air power to break both beads, electric power to mount-demount tires. Bishman 880-58 is the ONLY ALL POWER Tire Changer.

AIR POWER breaks both beads. Manual mounting-demounting is easy with special tool on the Bishman 881-58.

ALL POWER #880-58

Truck Tire Remover

Operates by air or electric impact wrench or by hand. Forces bead down, lifts rim.

wrench not turn.

Handles all bus and truck rims to 8½" between flanges; tires to 12" diam. Bishman 860-C

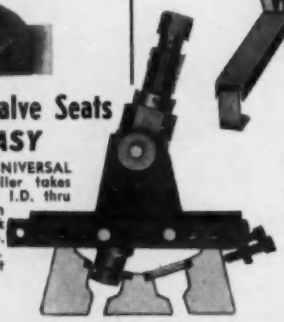
TRUCK TIRE CHANGER

Mount tubeless truck tires in under 2 minutes, demount under 1 minute on all drop center wheels and rims 17.5 thru 24.5. No heavy lifting. Available in electric or air power or manual.

Bishman No. 932 Tire Changer

Change Valve Seats FAST-EASY

NEW 100% UNIVERSAL Valve Seat Puller takes all inserts ¾" I.D. thru 3¼" I.D. from head or block at any angle. Bishman No. 939 Valve Seat Puller.



TIPP-IN TESTERS

Tires & Tubes—Capacity 24.5 Tires, 50" diam. tubes.

Just roll tire onto tire handler, tip into tank, rotate to test and tip out. Spots smallest leaks fast. Compact, easy to operate.

Bishman No. 934 TIPP-IN TESTER

SEE YOUR EQUIPMENT DISTRIBUTOR, BISHMAN REPRESENTATIVE OR WRITE FOR CATALOG NO. 59

Bishman MANUFACTURING CO. ROUTE 2, OSSEO, MINN.

Trailer Suspensions

Continued from Page 356

Both axles will be evenly loaded during the brake operation, but when equipped with towing mechanism as shown in Fig. 1 or 3, brake hop will be present.

Suspension in Fig. 6 has limited equalization under normal operating conditions. Load distribution between the axles in normal operation is excellent.

When equipped with towing mechanism as indicated in Fig. 2 or with the torque rod shown in Fig. 10, this gear will have excellent braking characteristics with little or no noticeable "hop."

Suspension in Fig. 7 has uniform load transfer under normal operating conditions and under braking conditions. When equipped with towing mechanism as indicated in Figs. 1 or 3, there will be brake "hop" present under light operating conditions. This tendency disappears with increased loads.

The very small movement of the beam makes this an ideal gear with use of rubber bushings.

ooo

The obstetrician was making the rounds of his patients in the labor room. Seeking a brief respite from the rugged business at hand, he stepped into the expectant father's waiting room. As he wiped heavy beads of perspiration from his brow, a Truck Driver father-to-be remarked, "Is this July heat getting you down, Doc?"

"No," replied the doctor. "It isn't the July heat so much as the cold nights last October."

aircraft-type

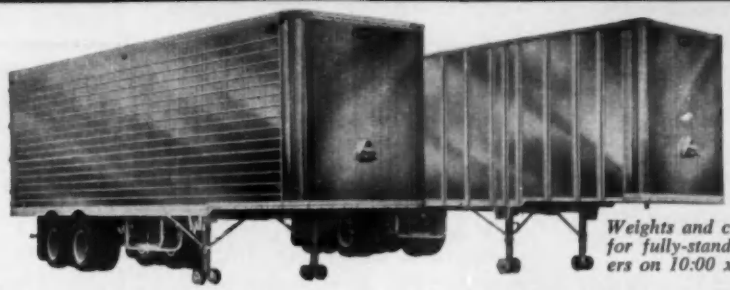
EXCLUSIVE DRIVMATIC RIVETING CUTS WEIGHT AND COST IN NEW DORSEYS

Here are six all-new trailers engineered to take advantage of the advanced manufacturing technique used only in the aircraft industry until Dorsey adapted it to build trailers! Because superior riveting makes it possible to design weight out of trailers and yet make them stronger, each of these new Dorseys *sets a new standard of payload capacity* in its class. It's as simple as this: the strength of a Monocoque structure depends upon the way side sheets are attached to stiffeners — and *Drivmatic-riveted joints are 40% stronger than manual riveting.*

And because Dorsey's electronically-controlled riveting machine installs 6,000 rivets in less than an hour, a substantial saving in cost of manufacture can be passed on to the buyer.

To fully appreciate what this revolutionary development can mean to you, see your Dorsey Distributor today.

Bigger, Lighter HI-CUBE VANS



Weights and cubage quoted are for fully-standard 35-foot trailers on 10:00 x 20 tires.

Satellite (HALT) 2,247 cu. ft. Wt.: 9,900 lbs.

A nose assembly that just won't break down heads a list of special engineering features that make both straight floor Dorsey Hi-Cubes outstanding for strength as well as capacity. The Satellite has plywood lining ingeniously recessed in the side-posts affording 93" inside width.

Vanguard (HEPT) 2,260 cu. ft. Wt.: 9,450 lbs.

Fully-stressed aluminum side sheets provide smooth interior walls and 93½" inside width in the rugged Vanguard. Exterior post construction permits minor accident repairs to be made in almost any shop with minimum downtime. Half or full plywood lining and aluminum scuff plates available at moderate cost.

Stronger, Lighter GRAIN TRAILERS

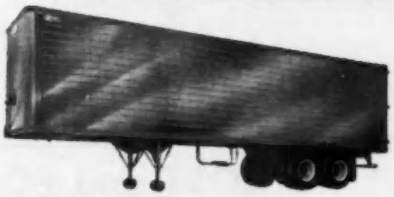
Satellite (GALT) 8,495 lbs.

New design eliminates an old headache in grain trailer operation in both these new Dorseys: Front corners are stress-relieved to prevent breakage under wracking or twisting. Precision machine riveting will keep the ribbed aluminum GALT sleek and beautiful.

Vanguard (GEPT) 8,190 lbs.

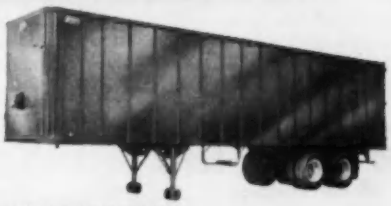
Top and bottom rails are special extrusions designed for extra strength. Top rail contains leak-proof sockets for tarpaulin bows. On the outside-post GEPT clad aluminum sheets provide smooth inside walls. Both models have the new Dorsey full-width upper fifth wheel plate.

Economical, Rugged ALL-STEEL VANS



Atlas (DIPT) 10,130 lbs.

The economy and durability of steel in a trailer lighter than most aluminum vans? It HAS been done—an achievement of progressive engineering and the amazing perfection of Drivmatic riveting.



Titan (DOPT) 10,130 lbs.

Both steel vans have the new Dorsey pickup plate that spans the entire width of the trailer, the patented Servidor (electrical connection box) and many other important new features.

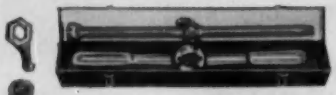
For the latest in transportation equipment, see your Dorsey Distributor today.

DORSEY TRAILERS ELBA, ALABAMA

A Subsidiary of the Dorsey Corporation

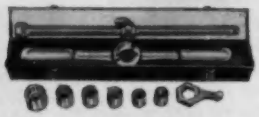
Truck Wheel Changes
—a one-man job
with JOB-DESIGNED KEN-TOOL IMPACT WRENCH SETS

Ken-Tool Impact Wrench Handles swing freely through a 120° arc . . . strike with tremendous force. Loosen rusted, frozen nuts fast. Long shaft keeps handle clear of truck or bus bodies.

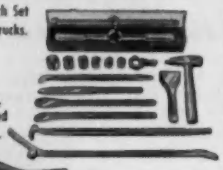


TR-42 Set
5-piece Impact Wrench Set for all Ford and Budd Wheels.

TR-41 Set



10-piece Impact Wrench Set for 90% of popular trucks.



TR-40 Set
18-piece set—Impact Wrench Set, plus 9 Ken-specialized Tire Changing Tools.

TX-9
Budnut Wrench, a "must" for Budd and Ford wheels. Holds outer cap nut while turning inner. No chiseling necessary.

SEE YOUR JOBBER on the complete line of *Job-Designed* Ken-Tools. Forged by the largest exclusive manufacturer of top-quality Tire-changing Tools and Equipment. THE KEN-TOOL MFG. CO., AKRON 5, OHIO.

JOB-DESIGNED
KEN-TOOLS
TIRE-CHANGING TOOLS KNOWN, USED AROUND THE WORLD

Watch that Woman Driver!

The truck driver of today who is harassed by women drivers isn't complaining about anything new. Back in Rome in 205 B.C., "truckers" had the same problem. Reckless women drivers caused so much havoc that a law was passed prohibiting women from driving chariots at all. For 25 years male teamsters breathed a bit more easily. However, the ladies embarked on a campaign of protest. Around 180 B.C., they actually stormed the Capitol. Marcus Cato made a speech about women's rights in their defense—and the girls got their licenses back again. The next time you have a story to tell about a woman driver, don't think that you're being modern. Such episodes didn't originate with the motoring age. They were born in antiquity.

CCJ

1ST FREIGHT LOADER: "I WON'T GET MARRIED UNTIL I FIND A GIRL LIKE THE ONE THAT GRANDPA MARRIED."

2ND FREIGHT LOADER: "HUH, THEY DON'T HAVE WOMEN LIKE THAT NOWADAYS."

1ST FREIGHT LOADER: "THAT'S FUNNY, GRANDPA ONLY MARRIED HER LAST WEEK."

GERMAN AUTOMATIC
6-SHOT REPEATER—.22 CAL.

German Automatic, latest model 6 shot repeater, .22 caliber self ejecting clip, precision made by the finest West German Gunsmiths. Wonderful for sporting events, theatrical performances, would-be attackers, etc. 4" long, perfectly balanced. (Not available to residents of California.) Not a lethal weapon. Sold on money back guarantee. Comes for $6.95 ppd. from Best Values, Department A161, 403 Market St., Newark, N. J. $6.95

TRUCK WASHERS

AUTOMATIC ALL PURPOSE SYSTEM REVOLUTIONIZES VEHICLE WASHING

WRITE FOR INFORMATIVE FOLDER

Hohlert Corporation
LANSING 5 MICHIGAN

THE GLEDHILL ROAD MACHINERY CO.
Galion, Ohio

WANTED 100 G.M.C. BUSES

Model number

4401	3612
4402	3714
4403	

Immediate delivery
State: description, price and location

Gloucester Auto Bus Co.
48 Bass Avenue
Gloucester, Mass.

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WANTED IMMEDIATELY PROJECT ENGINEER. Immediate opportunity for Project Engineer. Established manufacturer Los Angeles area. Mechanical engineer with experience in automotive truck design preferred. Application with resume considered confidential. Box No. 18, Commercial Car Journal, 5601 Chestnut St., Philadelphia 39, Pa.

Large Western Pennsylvania Manufacturing firm seeking regional and/or national sales organization now selling truck trailer fleets, dealers and manufacturers to distribute proven product for trailers. Write Box 17, Commercial Car Journal, 5601 Chestnut Street, Philadelphia 39, Pa.

LOST and FOUND

Lost profits can be found by using standard forms by Fleet Forms. Fleet Operators from coast to coast have increased the life of their equipment and profited from more control over hidden costs that creep into business.

Fleet Forms has over 40 standard printed forms designed for the control of maintenance and vehicle accounting. Our new 1960 Catalog is ready — write:

Fleet Forms, Box 147-C, Chardon, Ohio

P.S.: If your Accident Reports are a mess — ask for a sample of our Form #9010 — It may solve your problems.

BIG NEWS FOR over-the-road TRUCKERS!

NEW PUSHER PUMP solves engine fueling problems—lengthens engine life—cuts upkeep costs

Here are the facts about Tokheim's new In-Tank Pump that have already led two of the country's foremost truck manufacturers to make it a standard specification. Suspended in the tank and designed to push fuel to the carburetor, it delivers dependable, maintenance-free service for 100,000 miles and more—three times the life of conventional suction pumps. Gasoline is delivered in a steady, uninterrupted flow, eliminating engine starvation even when the fuel supply is at an extremely low level. Because it is designed specifically for today's highly volatile gasolines, the Tokheim pump stops vapor-lock, permits open throttle driving mile after mile, without danger of valve burn-out. It assures cold starts, provides engine operation you can depend on in the widest temperature extremes. Equally important, this pump is priced so that you can convert your entire fleet economically. A trial installation will convince you. Today, see your truck equipment distributor, or write the factory for literature.

General Products Division

TOKHEIM CORPORATION

Fort Wayne, Indiana

QUALITY TOKHEIM

IN-TANK ELECTRIC FUEL PUMP

NOW used by 2 leading truck manufacturers.

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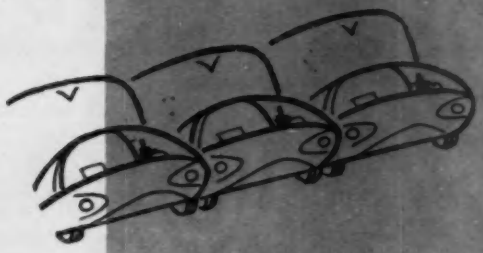

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